07:26:20 2005

7

Thu Apr

Page

Lactam br Colled co Colled co SSP4 poly Generic 1 DE novo d Peptide f Peptide f Beta-shee Peptide h Peptide h Antimicro

Colied co Coiled co

Human bre

Alpha-hel Peptide u Protein m Peptide C

Integrin

É

The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-plC New protein structures with peptide monomer units, useful in Atomic E Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves. Aabb8118 Aabb8188 Aabb8188 Aabb8188 Aab74340 Aaw11601 Aar11979 Aaw1161 Aaw1161 Aaw71415 Aaw71415 Aaw80546 Aaw71424 Aag65330 Aab65330 Aab665330 Aab66530 Aa Abg78944 4; Length 28; IndelB Query Match
100.0%; Score 132; DB 4;
Best Local Similarity 100.0%; Pred. No. 2.7e-11;
Matches 28; Conservative 0; Mismatches 0; Colyer J ALIGNMENTS 1 KIAALKQKIASLKQEIDALEYENDALEQ 28 AAB74340
AAW11601
AAW11601
ADD93917
ADB93917
AAR31979
AAW11604
AAW11415
AAW71415
AAW60531
AAW60531
AAW60531
AAW60531
AAW605310 AAB59138 AAB08388 ADA00699 Woolfson DN, Walshaw J, Pandya MJ, ABG78944 AAB74343 ID AAB74343 standard; peptide; 28 AA Claim 16, Page 26, 45pp, English 18-SEP-2000; 2000WO-GB003576 99GB-00022013 Atomic Force Microscopy; AFM entry) WPI; 2001-335468/35. 02-JUL-2001 (first (UYSU-) UNIV SUSSEX Peptide SAF-plC Sequence 28 AA; WO200121646-A1. 17-SEP-1999; Unidentified 29-MAR-2001 AAB74343; SOCCOCCESSCATATIONS ઠે Self-asse Peptide S Peptide S Self-asse Self-asse Peptide S Peptide U Peptide S Peptide O Peptide O Peptide O Peptide O Peptide O Peptide O Peptide u Peptide u CVX0270 p Strep pep Strep pep Coiled-co April 27, 2005, 14:45:41 ; Search time 122 Seconds (without alignments) 88.765 Million cell updates/sec Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. Add 14351
Add 1436
Add 1436
Add 1434
Add 1436
Ad 794064 GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd. Total number of hits satisfying chosen parameters: 28 2105692 segs, 386760381 residues US-10-088-417A-1 132 1 KIAALKQKIASLKQEIDALEYENDALEQ SUMMARIES Minimum Match 0% Maximum Match 100% Listing first 45 summaries protein search, using sw model AAB74341 AAB74342 ADM41438 AAB74345 ADM41437 ADM41437 AAB74356 AAB74346 AAB74346 AAB74349 AAB74355 AAB74350 ABR84737 ABR84736 AAB74344 AAE18799 AAE18797 AAY95958 AAB08381 AAB08382 AAE18788 AAB74351 ADM41436 AAB74343 BLOSUM62 Gapop 10.0 , Gapext 0.5 geneseqp2000s:* geneseqp2001s:* geneseqp2001s:* geneseqp2003as:* geneseqp2003bs:* A_Geneseq_16Dec04:* .: geneseqp1980s:* : geneseqp1990s:* DB Length Copyright llength: 0 llength: 28 Query Match

Post-processing:

Database

8eq

Minimum DB Maximum DB

Title: Perfect score:

Sequence:

OM protein -

Run on:

Scoring table:

Searched:

Þ

Force

ö

Gaps

ö

Score

Š.

Result

셤

```
New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                     The present sequence is that of self-assembling peptide fibre (SAF) SAF-pl. The invention relates to fibre-shaping (FiSh) peptides ADM41434-8DM41435. That are capable of interacting with SAFs to form protein structures. The FiSh peptides allow morphological changes (branches, splits, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein structures, such as assemblies in general, including matrix, filter, network, grid and scaffold etructures. Use of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering, claimed.
                                                                                                                                                                                                                    Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 132; DB 8; Length 28; 100.0%; Pred. No. 2.7e-11; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KIAALKQKIASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pandya MJ,
                                                                                                                                                                                                                                                                                               Example 30; Page 22; 37pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB74341 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Atomic Force Microscopy; AFM
                                                                                 06-SEP-2002; 2002GB-00020805.
                                              08-SEP-2003; 2003WO-GB003900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.0
Matches 28, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Walshaw J,
                                                                                                                                                      Ryadnov MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYSU-) UNIV SUSSEX
                                                                                                                    (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peptide SAF-plA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-2001.
                                                                                                                                                       Woolfson D,
              18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB74341;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB74341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-pl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Force
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New protein structures with peptide monomer units, useful in Atomic E
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 132; DB 4; 100.0%; Pred. No. 2.7e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fibre-shaping peptide; self-assembling peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KIAALKQKIASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KIAALKOKIASLKOBIDALEYENDALEO
 KIAALKQKIASLKQEIDALEYENDALEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Self-assembling peptide fibre SAF-pl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                          Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 16; Page 26; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM41436 standard; peptide; 28
                                                                                          AAB74351 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                         18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                              99GB-00022013
                                                                                                                                                                                                                                   Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry
                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 100.
nes 28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004022584-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 28 AA;
                                                                                                                                                                                                                                                                                                      WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
Modified-site
                                                                                                                                                                                                Peptide SAF-pl
                                                                                                                                                                                                                                                                     Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                              17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-JUN-2004
                                                                                                                                                                                                                                                                                                                                         29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADM41436;
                                                                                                                             AAB74351;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
```

RESULT 3 ADM4143

ò 요 EXT THE SEX TO A THE TEXT OF T

```
The present sequence is that of self-assembling peptide fibre (SAF) SAF-
pp2a. The invention relates to fibre-shaping (FiSh) peptides ADM4134-
ADM41435 that are capable of interacting with SAFs to form protein
structures. The FiSh peptides allow morphological changes (branches,
splits, kinks and bends) to be made to protein fibres comprising SAFs. By
incorporating such morphological changes in the protein fibres, it is
possible to generate a variety of (nanoscale) protein structures, such as
assemblies in general, including matrix, filter, network, grid and
saffold structures. Use of the protein structures in the purification of
biological fluids, for assembling cells for cell and tissue engineering,
and in surface engineering procedures is claimed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 85; DB 8; Lengtn 20, Pred. No. 9.58-05;
                                                                                                                                              Fibre-shaping peptide; self-assembling peptide.
                                                                                                                                                                                                                                                           /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KIRRIKOKNARIKOELAALEYELAALEO 28
                                                                                                         Self-assembling peptide fibre SAF-p2a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KIAALKOKIASLKQEIDALEYENDALEQ
                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 36; Page 22; 37pp; English
ADM41438 standard, peptide; 28 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB74345 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               64.48;
                                                                                                                                                                                                                                                                                                                                                                     08-SEP-2003; 2003WO-GB003900
                                                                                                                                                                                                                                                                                                                                                                                                          06-SEP-2002; 2002GB-00020805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 75.0
nes 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Woolfson D, Ryadnov MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-248444/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                            WO2004022584-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Peptide SAF-p2A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 28 AA;
                                                                                                                                                                                                                       Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
                                                                       03-JUN-2004
                                                                                                                                                                                                                                                                                                                                  18-MAR-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-JUL-2001
                                                                                                                                                                                  Synthetic.
                                  ADM41438;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB74345;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74345
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CXXXEXEXEXXXXX
                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                     peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-plA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p18
                                                   The present invention relates to a protein structure with several first
                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gapa
                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                    Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 97.7%; Score 129; DB 4; Length 28; Best Local Similarity 96.4%; Pred. No. 7e-11; Matches 27; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                Score 129; DB 4;
Pred. No. 7e-11;
1; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Colyer J;
                                                                                                                                                                                                                                                                                              1 KIAALKOKIASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 KIAALKQKIAALKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                          AAB74342 standard; peptide; 28 AA
                 Page 26; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99GB-00022013
                                                                                                                                                                                                  Query Match
Best Local Similarity 96.4%;
Matches 27; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide SAF-plB
                                                                                                                                                               Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-2001
                 Claim 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB74342;
```

RESULT 5 AAB74342

ò 셤

XXXXXXXXXXXXXXXX

ö

Gaps

; 0

RESULT 6 ADM41438

RESULT

ò 셤

Gaps

ö

Length 27;

60.6%; Score 80; DB 8; Length 27; 74.1%; Pred. No. 0.00045; ive 0; Mismatches 7; Indels

Ź

```
The present sequence is that of a self-assembling peptide fibre (SAF). The invention relates to fibre-shaping (FiSh) peptides ADM41434-ADM41435 that are capable of interacting with SAFs to form protein structures. The FiSh peptides allow morphological changes (branches, splits, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein structures, such as assemblies structures use of the protein structures in description of structures. Use of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering procedures is claimed.
                                                                                                                                                                                                                                                          2 IAALKOKIASLKOEIDALEYENDALEO 28
                                                                                                                                                                                                                                                                                   irrikoknarikoeiaaleyeiaaleo 27
Example 30; Page 22; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                   AAB74348 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYSU-) UNIV SUSSEX.
                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptide SAF-p2D
                                                                                                                                                                                Sequence 27 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200121646-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                       02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                              AAB74348;
                                                                                                                                                                                                                                                                                                                            RESULT 9
                                                                                                                                                                                                                                                                                                                                           AAB74348
                                                                                                                                                                                                                                                                                                                                                                 Š
 8×35555555555555588
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                   New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                             The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                  / Match 62.1%; Score 82; DB 4; Length 28; Local Similarity 75.0%; Pred. No. 0.00025; Pred. 1; Mismatches 6; Indels
                                                                                                                                   Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fibre-shaping peptide; self-assembling peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                         28
                                                                                                                                                                                                                                                                                                                                                                                                                                               KISALKWKNASLKOBIAALBOBIAALBO 28
                                                                                                                                                                                                                                                                                                                                                                                                                         1 KIAALKOKIASLKQEIDALEYENDALEQ
                                                                                                                                    Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Self-assembling peptide fibre (SAF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A.
                                                                                                                                                                                                                                        Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM41437 standard; peptide; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-SEP-2003; 2003WO-GB003900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-SEP-2002; 2002GB-00020805.
                                                      18-SEP-2000; 2000WO-GB003576.
                                                                                  99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                    Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-248444/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ryadnov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYSU-) UNIV SUSSEX.
                                                                                                                                                             WPI; 2001-335468/35
                                                                                                          (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004022584-A1
                                                                                                                                                                                                                                                                                                                                               Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Key
Modified-site
        WO200121646-A1
                                                                                                                                      Woolfson DN,
                                                                                   17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Woolfson D,
                                29-MAR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM41437;
                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADM41437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                    å
```

```
ö
                                                                                                                                                                                                                                                                                                 The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2D
                                                                                                                      Force
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                   New protein structures with peptide monomer units, useful in Atomic Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 57.6%; Score 76; DB 4; Length 28; Best Local Similarity 71.4%; Pred. No. 0.0017; Matches 20; Conservative 0; Mismatches 8; Indels
Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KIAALKQKIASLKQEIDALEYENDALEQ 28
   Pandya MJ,
                                                                                                                                                                                                                                                      Disclosure; Page 9; 45pp; English.
      ם,
      Walshaw
                                                                 WPI; 2001-335468/35.
```

AAB74356;

RESULT 10

엄

AAB7435

```
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2B
                                                                                                                                                   New protein structures with peptide monomer units, useful in Atomic F
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
0
                                                                                                                                                                                                                                                                                                                                                                                               Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                IndelB
                                                                                                                                                                                                                                                                                                                           present sequence is the peptide monomer unit SAF-p2
                                                                                                                                                                                                                                                                                                                                                                                               Score 76; DB 4; Le
Pred. No. 0.0017;
0; Mismatches 8;
                                                                                     Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KIRALKAKNAHLKOBIAALEOBIAALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KIAALKOKIASLKOEIDALEYENDALEO
                                                                                     Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ž
                                                                                                                                                                                                                       Claim 16; Page 26; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74346 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                               57.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-SEP-2000; 2000WO-GB003576.
                   99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Woolfson DN, Walshaw J,
                                                                                       ט,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                   Walshaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-335468/35.
                                                   (UYSU-) UNIV SUSSEX
                                                                                                                     WPI; 2001-335468/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide SAF-p2B
                                                                                                                                                                                                                                                                                                                                                                Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 28 AA;
                   17-SEP-1999;
                                                                                     Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                  20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74346;
                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB74346
   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is a peptide used to form blunt-ended heterodimers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New protein structures with peptide monomer units, useful in Atomic l
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 76; DB 4; Length 28;
Pred. No. 0.0017;
0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Colyer J;
                                                                                                                                                                                       Peptide used to form blunt-ended heterodimers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
1 KIRALKAKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KIRALKAKNAHLKOEIAALEOEIAALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure, Fig 8; 45pp; English
                                                                                 AAB74356 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB74352 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                             18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                               99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ch 57.6%; 1 Similarity 71.4%; 20; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                       Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Atomic Force Microscopy, AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-335468/35.
                                                                                                                                                     (first
                                                                                                                                                                                                                                                                                                                                                                                                                                (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200121646-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 28 AA;
                                                                                                                                                                                                                                                                                           WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide SAF-p2
                                                                                                                                                                                                                                                         Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-JUL-2001
                                                                                                                                                   02-JUL-2001
                                                                                                                                                                                                                                                                                                                             29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAR-2001.
```

AAB74352;

RESULT 11 AAB74352

Query Match Best Loca Matches

ઠે 유

RESULT 13

ઠે 셤

us-10-088-417a-1.rag

```
New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                          The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2E
                                                                                                                                                                                                                                             New protein structures with peptide monomer units, useful in Atomic E
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          56.1%; Score 74; DB 4; Length 28; larity 71.4%; Pred. No. 0.0033; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Colyer J;
                                                                                                                                                                                       Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide used to form blunt-ended heterodimers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KIRALKCKNAHLKOEIAALEOEIAALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pandya MJ,
                                                                                                                                                                                       Pandya MJ,
                                                                                                                                                                                                                                                                                                                    Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Fig 8; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB74355 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Atomic Force Microscopy; AFM
                                                                                           18-SEP-2000; 2000WO-GB003576.
                                                                                                                           99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Walshaw J,
                                                                                                                                                                                       Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                      WPI; 2001-335468/35.
                                                                                                                                                         (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
es 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200121646-A1
                              WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1999;
                                                                                                                                                                                         Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unidentified
                                                                                                                           17-SEP-1999;
Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-2001.
                                                              29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB74355;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Force
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New protein structures with peptide monomer units, useful in Atomic E
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 75; DB 4; Length 28; Pred. No. 0.0024; 0; Mismatches 8; Indels
                ch 56.8%; Score 75; DB 4; Length 28; 1 Similarity 71.4%; Pred. No. 0.0024; 20; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                                     1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74349 standard; peptide; 28 AA
                                                                                                                                                                                                Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 16; Page 26; 45pp; English.
                                                                                                                                                                                              AAB74347 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         56.8%;
ilarity 71.4%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                            Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99GB-00022013
                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-JUL-2001 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYSU-) UNIV SUSSEX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                    Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Peptide SAF-p2E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 28 AA;
                                                                                                                                                                                                                                                                                            Peptide SAF-p2C
                                                                                                                                                                                                                                                                                                                                                                                         WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                            Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Woolfson DN,
                                                                                                                                                                                                                                                              02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74349;
                                                                                                                                                                                                                              AAB74347;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 14
```

AAB74349

윱 ð

XXXXXXXXX

ö

Gaps

```
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Acomic Force Microscopy and a number of other applications. The present sequence is a peptide used to form blunt-ended heterodimers
                                                                                                                                                                                                                                   Query Match 53.0%; Score 70; DB 4; Length 28; Best Local Similarity 100.0%; Pred. No. 0.012; Matches 14; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                  Sequence 28 AA;
   88888888
```

Gaps ;

> Search completed: April 27, 2005, 15:02:15 Job time : 124 secs 15 EIDALEYENDALEQ 28 |||||||||||| 1 EIDALEYENDALEQ 14 g δ

Section of the Sectio

AND THE TONG CHILL

```
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
```

model	
3	
using	
search,	
protein	
•	
protein	
ŏ	

April 27, 2005, 15:02:43; Search time 89.5 Seconds (without alignments) 104.113 Million cell updates/sec Run on:

US-10-088-417A-1 132 Title: Perfect score:

1 KIAALKOKIASLKOEIDALEYENDALEO 28 Seguence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1424015 segs, 332791073 residues Searched:

334731 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 28

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/PCT_NEW PUB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/NGG NEW PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/USG6_NEW PUB.pep:*

5: /cgn2_6/ptodata/2/pubpaa/USG6_NEW PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/NGGN_NEW PUB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/NGS0_NEW PUB.pep:*

8: /cgn2_6/ptodata/2/pubpaa/NGS0_NEW PUB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/USOB_NEW PUB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/USIOB_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USIOD_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 23, Appl	Sequence 22, Appl	Sequence 7, Appli	Sequence 6, Appli	Sequence 6, Appli	Sequence 59, Appl	Sequence 19, Appl	Sequence 19, Appl	19,	21,	Sequence 20, Appl	20,	
ID	US-10-360-053-23	US-10-360-053-22	US-09-882-774-7	US-09-320-907B-6	US-10-447-292-6	US-09-259-658-59	US-10-338-083-19	US-10-611-399-19	US-10-794-751-19	US-10-360-053-21	US-10-338-083-20	US-10-611-399-20	US-10-794-751-20
DB	14	14	10	σ	15	10	14	16	11	14	14	16	17
* Query Match Length DB	28	28	27	28	28	23	24	24	24	28	24	24	24
Ouery Match	43.2	40.9	39.4	38.6	38.6	37.9	34.8	34.8	34.8	34.1	33.3	33.3	33.3
Score	57	54	52	51	51	20	46	46	46	45	44	44	44
Regult No.	-	7	٣	4	S	9	7	80	σ	10	11	12	13

Sequence 7, Appli Sequence 534, App Sequence 534, App Sequence 534, App Sequence 534, App Sequence 534, App Sequence 534, App Sequence 70, Appli Sequence 70, Appli Sequence 12, Appli Sequence 12, Appli Sequence 13, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli Sequence 24, Appli Sequence 24, Appli Sequence 24, Appli Sequence 12, Appli Sequence 13, Appli Sequence 14, Appli Sequence 12, Appli Sequence 13, Appli Sequence 13, Appli Sequence 163, Appli Sequence 163, Appli Sequence 163, Appli	Sequence 3, Appl1 Sequence 597, App
0.82	4 US-10-059-720-3 4 US-10-076-622-597
822222222222222222222222222222222222222	90
4 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	28.8 28.0
4 4 4 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 4 5

ALIGNMENTS

```
Sequence 23, Application US/10360053

Publication No. US20030170230A1

GENERAL INFORMATION:

APPLICANT: Caterer, Nigel

APPLICANT: Offerer Nations and Methods for Assembly and Stabilization of Antibc

TITLE OF INVENTION: Thereof

TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43.2%; Score 57; DB 14; Length 28; 60.0%; Pred. No. 1.5; ive 5; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
Matches 12; Conserv
US-10-360-053-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
```

1 KIAALKOKIASLKOEIDALE 20 | ||:|:||:|||| |:| KQAAIKNEIAAIKQEIAAIE 24 ß

ઠે 셤

ö

RESULT 2

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-47-292-6

| Sequence 6, Application US/10447292
| Sequence 6, Application US/10447292
| Publication No. US20030224453A1
| GENERAL INFORMATION:
| APPLICANT: GINSBERG, MARK H.
| APPLICANT: GINSBERG, MARK H.
| APPLICANT: PFAFF, MARTIN
| TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS
| TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS
| FILE REFERENCE: SRI-0006
| CURRENT APPLICATION NUMBER: US/10/447,292
| CURRENT PILING DATE: 1999-05-27
| PRIOR APPLICATION NUMBER: US/09/320,907B
| PRIOR APPLICATION NUMBER: US/09/326
| RROR FILING DATE: 1998-11-05
| NUMBER OF SEQ ID NOS: 25
| SEQ ID NO 6
| LENGTH: 28
Sequence 6, Application US/09320907B; Sequence 6, Application US/09320907B; Publication No. US20020198360Al; Publication No. US20020198360Al; Publication No. US20020198360Al; APPLICANT: GINSERG, MARK H.

APPLICANT: PEAFF, MARTIN

TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS

TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS

TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS

TITLE OF INVENTION OF TRANSMEMBRANE RECEPTORS

FILE REFERENCE: STR. 1009/320, 907B

CURRENT APPLICATION NUMBER: 09/187,236

PRIOR PAPLICATION NUMBER: 09/187,236

PRIOR PAPLICATION NUMBER: 09/187,236

NUMBER OF SEQ ID NOS: 25

SOFTWARE: PALEGALIN VEY: 2.0

SEQ ID NO 6

LENGTH: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-447-292-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Description of Artificial Sequence:Synthetic US-09-320-907B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match

38.6%; Score 51; DB 15; Length 28;
Best Local Similarity 40.7%; Pred. No. 9.2;
Matches 11; Conservative 10; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 38.6%; Score 51; DB 9; Best Local Similarity 40.7%; Pred. No. 9.2; Matches 11; Conservative 10; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 KIAALKQKIASLKQEIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KLEALEGRIDALEGKLEALEGKLDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KIAALKQKIASLKQEIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 59, Application US/09259658; Publication No. US20030032054A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
US-09-259-658-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
Sequence 22, Application US/10360053

Sequence 22, Application US/10360053

Publication No. US20030170230A1

GENERAL INFORMATION:
APPLICANT: Caterer, Nigel
APPLICANT: Uttenthal, Lars O
TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibe
TITLE OF INVENTION: Thereof
STILING DATE: 2002-02-05
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PLING DATE: 2002-02-05
SEQ ID NO 22
LENGTH: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 7, Application US/09882774

Sequence 7, Application US/09882774

Publication No. US20030021795A1

GENERAL INFORMATION:

APPLICANT: Houston, Michael E.

TITLE OF INVENTION: GENERAL ELECTION: Structure Specific Peptides

TITLE OF INVENTION: Structure-Specific Peptides

TITLE OF INVENTION: Structure-Specific Peptides

TITLE OF INVENTION: Structure-Specific Peptides

CURRENT FILING DATE: 2001-06-14

PRIOR FILING DATE: 2000-06-14

PRIOR FILING DATE: 2000-06-23

NUMBER OF SEQ ID NOS: 16

SEQ ID NO 7

LENGTHARE: PATENTING TO SEQ ID NOS: 16

SEQ ID NO 7

LENGTH: 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match

40.9%; Score 54; DB 14; Length 28;
Best Local Similarity 55.0%; Pred. No. 3.8;
Matches 11; Conservative 6; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 10; Length 27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 39.4%; Score 52; Best Local Similarity 54.5%; Pred. No. 6 Matches 12; Conservative 3; Mismatch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :| |||:|| | :|| || |
EIEALKKKIEELSDKIDELEKE 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KIAALKOKIASLKOEIDALEYE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
OTHER INFORMATION: hybrid sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KIAALKOKIASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Synthetic US-10-360-053-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; LOCATION: (2) 
; OTHER INFORMATION: Nle
US-09-882-774-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-882-774-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

. 0

RESULT 4

```
Query Match 34.8%; Score 46; DB Best Local Similarity 41.7%; Pred. No. 34; Matches 10; Conservative 8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 34.8%; Score 46; DB Best Local Similarity 41.7%; Pred. No. 34; Matches 10; Conservative 8; Mismatches
                  CURRENT APPLICATION NUMBER: US/10/611,399
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 10/338,083
PRIOR FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR APPLICATION NUMBER: US 60/373,453
PRIOR FILING DATE: 2002-01-04
PRIOR FILING DATE: 2002-01-07
NUMBER: OF SEQ ID NOS: 23
SEQ ID NO 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 AALKOKIASLKOEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AALESEVSALESEVAAL 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 AALKOKIASLKOBIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AALESEVSALESEVASLESEVAAL 24
                                                                                                                                                                                                                                                                                                                                                                                              CTHER INFORMATION: coiled-coil motif US-10-611-399-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: coiled-coil motif
US-10-794-751-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19, Application US/10794751
Publication No. US20050048626A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21, Application US/10360053 Publication No. US20030170230A1
                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial sequence
  FILE REFERENCE: A-71273-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-794-751-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
US-10-360-053-21
                                                                                                                                                                                                                                                                                                 LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Pos
SEQ ID NO 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TUBLICANT: Desjarlais, John R.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Desjarlais, John R.
TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
FILE REFERRICE: A-71273-2
CURRENT APPLICATION NUMBER: US 60/345,805
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR FILING DATE: 2002-01-04
PRIOR FILING DATE: 2002-01-04
PRIOR FILING DATE: 2002-01-04
PRIOR FILING DATE: 2002-01-04
SPRIOR APPLICATION NUMBER: US 60/373,453
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin version 3.2
SEQ ID NO 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Description of Artificial Sequence:Synthetic of Transferase of Transferase other Information: peptide used to assay geranylgeranyl transferase US-09-259-658-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Desjarlais, John R.
APPLICANT: Tangey, Malu Lourdes G.
APPLICANT: Dahiyat, Bassii I.
TITLE OF INVENTION: DOMINANT NEGATIVE PROTEINS AND METHODS THEREOF
                                                                TITLE OF INVENTION: Compositions And Methods For Monitoring The TITLE OF INVENTION: Modification State Of A Pair Of Polypeptides FILE REPERENCE: colyer 42556/79245
CURRENT APPLICATION VIMBER: US/09/259,658
CURRENT FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 59
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 59
LENGTH: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ch 37.9%; Score 50; DB 10; Length 23; I Similarity 75.0%; Pred. No. 10; 12; Conservative 1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 14; Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 34.8%; Score 46; DB Best Local Similarity 41.7%; Pred. No. 34; Matches 10; Conservative 8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 AALKQKIASLKQEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 AALESEVSALESEVASLESEVAAL 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-338-083-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19, Application US/10611399
Publication No. US20040170602A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19, Application US/10338083
Publication No. US20030166559A1
                                                                                                                                                                                                                                                                                              TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KIAALKOKIASLKOEI 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KIAQLKOKNACLKOKI 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 12; Conserv
Craig
Maschio
                                                 Mezna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 7
US-10-338-083-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-611-399-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                         APPLICANT
APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             윱
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                       ö
DB 16; Length 24; 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 17; Length 24;
                                                                   6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Depisition, John R.
APPLICANT: Thomason, Adam Read
APPLICANT: Thomason, Adam Read
TITLE CANT: Thomason, Adam Read
TITLE OF INVENTION: Eugene Alexander
TITLE REFERENCE: A-72175-1
CURRENT PILLIG DATE: 2004-03-05
PRIOR APPLICATION NUMBER: US 10/138,083
PRIOR APPLICATION NUMBER: US 60/452,707
PRIOR APPLICATION NUMBER: US 60/452,707
PRIOR PILLING DATE: 2003-03-07
PRIOR PILLING DATE: 2003-03-07
PRIOR PILLING DATE: 2003-06-23
PRIOR PILLING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: US 60/528,104
PRIOR PILLING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: US 60/528,104
PRIOR PILLING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: US 60/528,104
PRIOR PILLING DATE: 2003-11-20
```

ô

```
Gaps
                                                                                                                          APPLICANT: Dahiyat, Bassil I.

TITLE OF INVENTION: DOMINANT NEGATIVE PROTEINS AND METHODS THEREOF
FILE REFERENCE: A-7123-3
CURRENT APPLICATION WUMBER: US/10/611,399
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR PELING DATE: 2003-01-04
PRIOR FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR FILING DATE: 2002-01-04
PRIOR PILING DATE: 2002-01-04
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin version 3.2
SEQ ID NO 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33.3%; Score 44; DB 17; Length 24; 44.4%; Pred. No. 62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 44; DB 16; Length 24;
Pred. No. 62;
7; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-1U-(74-75)-4U

Sequence 20, Application US/10794751

Publication No. US20050048626A1

GENERAL INFORMATION:

APPLICANT: Desjariais, John R.

APPLICANT: Thomason, Adam Read

APPLICANT: Thomason, Adam Read

APPLICANT: Thomason, Adam Read

PILE REFERENCE: A-72175-1

CURRENT FILING DATE: 2004-03-05

PRIOR PILING DATE: 2003-01-06

PRIOR PLING DATE: 2003-03-07

PRIOR PLING DATE: 2003-07-07

PRIOR PLING DATE: 2003-01-07

PRIOR PLING DATE: 2003-01-07

PRIOR PLING DATE: 2003-01-07

PRIOR PLING DATE: 2003-11-20

PRIOR PLING DATE: 2003-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 33.3%; Score 44; Best Local Similarity 44.4%; Pred. No. Matches 8; Conservative 7; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: coiled-coil motif US-10-794-751-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , OTHER INFORMATION: coiled-coil motif
US-10-611-399-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KIAALKQKIASLKQEIDA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 KLSAVKSKLASVKSKLAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KIAALKOKIASLKOEIDA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best_Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
US-10-630-926-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibotitle OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibotitle OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibotitle OF INVENTION: Thereof

TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Desjarlais, John R.
APPLICANT: Desjarlais, John R.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Dahiyat, Bassil I.
ITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
FILE REFERENCE: A-71273-2
CURRENT APPLICATION NUMBER: US/10/338,083
CURRENT FILING DATE: 2003-01-16
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR APPLICATION NUMBER: US 60/345,453
PRIOR PILING DATE: 2002-04-17
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin version 3.2
SEQ ID NO 20
LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
33.3%; Score 44; DB 14; Length 24;
Best Local Similarity 44.4%; Pred. No. 62;
Matches 8; Conservative 7; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
34.1%; Score 45; DB 14; Length 28;
Best Local Similarity 56.2%; Pred. No. 55;
Matches 9; Conservative 5; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: coiled-coil motif
US-10-338-083-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20, Application US/10611399; Publication No. US20040170602A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20, Application US/10338083
Publication No. US20030166559A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Desjarlais, John R. APPLICANT: Tansey, Malu Lourdes G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KIAALKOKIASLKQEIDA 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 KLSAVKSKLASVKSKLAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KIAALKOKIASLKOEI 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :|||:| |||:||:|
12 EIAAIKDKIAAIKEYI 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Synthetic US-10-360-053-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
US-10-611-399-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-338-083-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  占
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 7, Application US/10630926
Publication No. US20040194160A1
GENERAL INFORMATION:
APPLICANT: RICCARDI, Carlo
TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                             COMPRESPONDER ADDRESS:
ADDRESSE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 624 Ninth Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/630,926
PRIOR APPLICATION NUMBER: US/09/403,861A
PRILING DATE: 31-V1-2003
APPLICATION NUMBER: BP 97107033.9
FILING DATE: 27-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REFERENCE/DOCKET NUMBER: RICCARDI=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 33.3%; Score 44; DB 16; Length 26; Best Local Similarity 43.5%; Pred. No. 68; Matches 10; Conservative 5; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: pepetide
SEQUENCE DESCRIPTION: SEQ ID NO: 7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 LKQKIASLKQEIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ||::| | :: || || |:
LKEQIKELIEKNSQLEQENDLLK 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-630-926-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
```

HO THANNIETS

AMALE ITALIAN SALESHILL

Run on:

```
APPLICANT: COLYEX, John
TITLE OF INVENTION: Methods and Compositions Using Coiled Binding Partners
FILE REFERENCE: 10069/1150
CURRENT PAPLICATION NUMBER: US/09/491,614B
CURRENT FILING DATE: 2000-01-26
PRIOR PILLING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin version 3.2
END ID NO 25
LENGTH: 25
                              Appli
                                                                                                       Sequence 3, A Sequence 37, Sequence 37, Sequence 37,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-08-491-527A-12
Sequence 12, Application US/08491527A
Sequence 12, Application US/08491527A
Patent No. 5924410.
SEQUENCE 12, Application US/08491527A
SET 11 TABLE 1 SEQUENCE 1 S.
TITLE OF INVENTION: Library Composition and Method
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Peptide for forming a coiled coil
US-09-976-472A-4
US-08-690-011A-2
US-08-690-011A-3
US-08-690-011A-3
US-08-690-011A-37
US-09-299-495F-3
US-08-182-175A-2
US-08-182-175A-3
US-08-182-175A-47
US-08-182-175A-47
US-08-474-633A-46
US-08-474-633A-40
US-08-474-633A-67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39.4%; Score 52; DB 4; 60.0%; Pred. No. 0.69; ative 3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Deblinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 25, Application US/09491614B Patent No. 6828106 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12; Conservative
     FEATURE:
NAME/KEY: Acetylation
LOCATION: (1)..(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; FEATURE:
; NAME/KEY: Amidation
; LOCATION: (25)..(25)
US-09-491-6148-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
     w.w.w.w.w.o.o.o.o.o.o.o.o.o.o.o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-491-614B-25
     Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Appl
Appli
Appli
Appli
Appli
                                                                                                                                                                         April 27, 2005, 14:58:17 ; Search time 29.5 Seconds (without alignments) 70.853 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Issued Patents AA:*

'cgn2_6/ptodata1/jaa/5A_COMB.pep:*
'cgn2_6/ptodata1/jaa/5B_COMB.pep:*
'cgn2_6/ptodata1/jaa/6A_COMB.pep:*
'cgn2_6/ptodata1/jaa/6B_COMB.pep:*
'cgn2_6/ptodata1/jaa/BECOMB.pep:*
'cgn2_6/ptodata1/jaa/PCTUS_COMB.pep:*
'cgn2_6/ptodata1/jaa/PCTUS_COMB.pep:*
                        GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-182-175A-1

US-08-491-57A-11

US-09-403-861A-7

US-09-834-759-534

US-08-182-175A-3

US-08-182-175A-3

US-08-175A-3

US-08-175A-3

US-08-175A-3

US-08-175A-3

US-08-175-175

US-08-177-173

US-08-177-173

US-08-913A-24

US-08-717-629-1

US-08-717-629-1

US-08-717-629-1

US-08-717-629-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-825-563-14
US-09-852-391-4
US-09-524-100C-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S-08-770-974-24
S-08-770-981-24
S-09-399-106-24
                                                                                                                                                                                                                                                                                 US-10-088-417A-1
132
1 KIAALKQKIASLKQEIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              seg length: 0
seg length: 28
                                                                                                                                                                                                                                                                                    Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88
                                                                                                                             OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database :
                                                                                                                                                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Maximum
```

Result No.

```
Sequence 1, Application PC/TUS9206412

Sequence 1, Application PC/TUS9206412

Sequence 1, Applicant Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing P. NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: E.1. du Pont de Nemours and Company
STREET: 1007 Market Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match

34.8%; Score 46; DB 1; Length 28;
Best Local Similarity 40.0%; Pred. No. 5.5;
Matches 8; Conservative 9; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDESSE: 1007 Market Street
CITY: Wilmington
STARET: 1007 Market Street
COUNTRY: USA
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06412
PILING DATE: 19920807
CLASSIFICATION DATA:
APPLICATION UNDRER: 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: BB-1031
TELEGORMUNICATION NUMBER: BB-1031
TELEGORMUNICATION NUMBER: BB-1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label= name
/note= "(SSP 4)4"
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1031
TELEFORMUNICATION INFORMATION:
TELEFORMUNICATION INFORMATION:
TELEFORMUNICATION 10020,992-4929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KIAALKOKIASLKOEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 aming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: 835420
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) NAME/KEY: Protein i.CB i.CATION: ) OTHER INFORMATION: ) OTHER INFORMATION: US-08-182-175A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCT-US92-06412-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Saverio Carl Falco
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing I
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSE: E.I. du Pont de Nemours and Company
STREET: 1007 Market Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ANTI-SENSE: NO
ORGINAL SOURCE:
INDIVIDUAL ISOLATE: LPS epitope library peptide, Fig. 5A
US-08-491-527A-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                            COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SUCTAME: BATEMIT Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/260,199
FILING DATE: 15-JUN-1994
PRIOR APPLICATION NUMBER: US 08/245,507
FILING DATE: 18-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REBERNICE/POCKET NUMBER: 38,615
RELEPAN: (415) 324-0860
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LEMGTH: 24 amino acids
LEMGTH: 24 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 34.8%; Score 46; DB 3
Best Local Similarity 54.5%; Pred. No. 4.6;
Matches 12; Conservative 4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: Macintosh System, 6.0 SOFTWARE: Microsoft Word, 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182,175A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KIAALKOKIASLKOBIDALEYE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 EIEALKKEIHFLVOKIHALEKE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1, Application US/08182175A Patent No. 5559223 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 1007 Marke
CITY: Wilmington
STATE: Delaware
COUNTRY: USA
                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-182-175A-1
```

ઠે

```
Best Local Similarity 50.0%; Pred. No. 6.3; Matches 11; Conservative 4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 LKQKIASLKQEIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LKEQIKELIBKNSQLEQENDLLK 23
                                                                                       1 KIAALKOKIASLKOEIDALEYE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 26 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 20001
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-834-759-534
                                                                                                                                                                       RESULT 6
US-09-403-861A-7
                                                                                                       셤
                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  윱
                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 11, Application US/08491527A
Patent No. 5824483
GENERAL INFORMATION:
APPLICANT: Houston, Michael E.
APPLICANT: Hodges, Robert S.
TITLE OF INVENTION: Conformationally-Restricted Combinatorial
TITLE OF INVENTION: Library Composition and Method
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                          Query Match
Best Local Similarity 40.0%; Pred. No. 5.5;
Matches 8; Conservative 9; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   exemplary generic library peptide,
Fig. 3A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: El PR PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/491,527A
FILING DATE: 16-JUNE-1995
PRIOR APPLICATION NUMBER: US 08/260,199
FILING APPLICATION NUMBER: US 08/260,199
FILING APPLICATION NUMBER: US 08/245,507
FILING APPLICATION NUMBER: US 08/245,507
FILING DATE: 18-MAY-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REGISTRATION NUMBER: 39,615
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0860
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
                                                         MOLECULE TYPE: protein
FRATURE: Protein
LOCATION: 1..28
OTHER INFORMATION: /label= name
PCT-US92-06412-1
                                                                                                                                                                                                                                                                                                                1 KIAALKOKIASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                                                      |: ||::|: :|:::: |||
4 KLKALEEKLKALEEKLKALE 23
TYPE: AMINO ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INDIVIDUAL ISOLATE: INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94306
                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-491-527A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-491-527A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                     g
```

DB 2; Length 24;

34.1%; Score 45;

Query Match

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 7, Application US/09403861A
Patent No. 6833348
GENERAL INFORMATION:
APPLICANT RICCARDI, Carlo
TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
DEATH PATHWAYS
     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORPUTER ACADAMATE COMPATION WITH TYPE: Floppy disk COMPUTER: IBM PC compatible COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION DATA: APPLICATION DATA: APPLICATION NUMBER: PCT/RP98/02490 FILING DATE: 27-APR-1998 APPLICATION NUMBER: BP 97107033.9 FILING DATE: 28-APR-1997 ATTORNEY/AGENT INFORMATION: NUMBER: 37.971 RESISTRATION NUMBER: 37.971 RESISTRATIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 26;
7; Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 624 Ninth Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 33.3%; Score 44; DB 4;
Best Local Similarity 43.5%; Pred. No. 9.6;
Matches 10; Conservative 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: RICCARDI=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAA: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear

MOLECULE TYPE: pepetide

SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09-403-861A-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 534, Application US/09834759; Patent, No. 6801097; GENERAL INFORMATION: APPLICANT: Dillon, Davin C.; APPLICANT: Miccham, Jennifer L.; APPLICANT: Xu, Jiangchun; APPLICANT: Harlocker, Suean L.; APPLICANT: Hepler, William T.
```

```
Gaps
                                              Gapв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
         DB 1; Length 28;
38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10.3%; Score 40; DB 1;
nilarity 25.0%; Pred. No. 38;
Conservative 12; Mimmarchan
                                                                                                                                                                                                                                                                                                           CHIMERIC GENES AND
METHODS FOR INCREASING
INCREASING THE LYSINE
AND THREONINE CONTENT
OF THE SEEDS OF PLANTS
                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: FLORPY DISK
MEDIUM TYPE: FLORPY DISK
COMPUTER: IBW PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,633A
FILLING DATE:
                                                12; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-1037-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 302-92-4931
TELEPHONE: 302-773-0164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label= name
/note= "(SSP 7)4"
           30.3%; Score 40; 25.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KIAALKOKIASLKOEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |: |:::|: ::::: |:|
4 KLKAMEEKLKAMEEKLKAME 23
                                                                                     1 KIAALKOKIASLKOEIDALE 20
                                                                                                         |: |:::|: :::::: |:|
4 KLKAMEEKLKAMEEXLKAME 23
                                                5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEX: 835420
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS
LENGTH: 28 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: 1..28
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: Protein
     Query Match
Best Local Similarity
Matches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid STRANDEDNESS: unl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: WILMINGTON
STATE: DELAWARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-474-633A-70
                                                                                                                                                                                                   US-08-474-633A-70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 10
US-08-823-771-70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                 RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSED: E.I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wildington
STATE: Delaware
COUNTRY: USA
                                                                                                                                                                                                                                                                                                 ö
APPLICANT: Henderson, Robert A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DAGNOSITIONS OF BREAST CANCER FILE REFERENCE: 210121.470C9
CURRENT APPLICATION NUMBER: US/09/834,759
CURRENT FILING DATE: 2001-04-13
NUMBER OF SEQ ID NOS: 547
SEG ID NO 534
LENGTH: 21
                                                                                                                                                                                                                                                        Query Match
31.1%; Score 41; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 20;
Matches 9; Conservative 5; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION NUMBER: US/08/182,175A
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /label= name
/note= "(SSP 7)4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY/AGENT INCORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REPERRONC/COCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELECPHONE: (302) 992-4929
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3, Application US/08182175A Patent No. 5559223 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                      5 LKOKIASLKOEIDALEYE 22
                                                                                                                                                                                                                                                                                                                                                               4 LKKEIAMLKLEIATLKHO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 835420
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTHER INFORMATION:
COTHER INFORMATION:
COTHER INFORMATION:
                                                                                                                                                                                       ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-759-534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 8
US-08-182-175A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                            ઠે
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Geguence 8, Application US/08737629
Patent No. 6190886
GENERAL INFORMATION:
APPLICANT: Hoppe, Hans-Jurgen
APPLICANT: Hoppe, Hans-Jurgen
TITLE OF INVENTION: Trimerising polypeptides, their manufacture
TITLE OF INVENTION: and use.
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSE: Nixon & Vanderhye PC
STREET: Bth Floor, 1100 No. 6190886th Glebe Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Parentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/737,629
FILING DATE: 10-JAN-1997
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 5;
                                                                                                                                                                     OPERATING SYSTEM: Macintosh System, 6.0 SOFTWARE: Microsoft Word, 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 25.0%; Pred. No. 38; 5; Conservative 12; Mismatches
                                                                                                                                                                            SOFTWARE: Microsoft Word, w.v.
SOFTWARE: Microsoft Word, w.v.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06412
FILING DATE: 19920807
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 AQUBET 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: 3692
REFERENCE/DOCKET NUMBER: 38.692
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAN:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1..28
OTHER INFORMATION: /label= name
OTHER INFORMATION: /note= "(SSP 7)4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30.3%; Score 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Arlington
STATE: Virginia
SUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KIAALKQKIASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acide
TYPE: AMINO ACID
STRANDEDNESS: unknown
      1007 Market Street
                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 5; Conservat
                      Wilmington
: Delaware
RY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: Protein
                                                                                         19898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCT-US92-06412-3
                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-737-629-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3, Application PC/TUS9206412
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing
NUMBER OF SEQUENCES:
ADDRESSEE: B.I. du Pont de Nemours and Company
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30.3%; Score 40; DB 4; Length 28; 25.0%; Pred. No. 38; tive 12; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                       COUNTRY: U.S....

ZIP: 19898

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/023,771
FILING DATE: 24-Mar-1997
CLASSIFICATION NUMBER: 08/474,633
FILING DATE: 4UNKNOWN>
PRIOR APPLICATION NUMBER: 08/474,633
FILING DATE: -UNKNOWN>
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REFERENCE/DOCKET NUMBER: 8B-1037-C
TELEPHONE: 302-773-0164
TELEFAX: 302-773-0164
TELEFAX: 303-773-0164
TELEFAX: 303-773-0164
TELEFAX: 28 AMINO SCIÉS
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                TITLE OF INVENTION: CHIMERIC GENES AND METHODS FOR INCREASING INCREASING THE LYSINE AND THREONINE CONTENT NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                  E. I. DU PONT DE NEMOURS
AND COMPANY
                                                                APPLICANT: E. I. DU PONT DE NEMOURS AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 1..28
OTHER INFORMATION: /label= name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / /note= "(SSP 7)4" /label= na // sequence Description: SEQ ID No: 70: US-08-823-771-70
                                                                                                                                                                                                                                                                                 STREET: 1007 MARKET STREET
Sequence 70, Application US/08823771
Patent No. 6459019
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KIAALKOKIASLKOEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 KLKAMEEKLKAMEEKLKAME 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Protein
                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: unknown MOLECULE TYPE: protein FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 25.0%;
                                                                                                                                                                                                                                                                                                     CITY: WILMINGTON
STATE: DELAWARE
COUNTRY: U.S.A.
                                                                                                                                                                                                                                    ADDRESSEE: E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          r-US92-06412-3
```

ઠે 셤

```
INFORMATION FOR SEQ ID NO: 24: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: not relevant
                                                                                              Query Match
Best Local Similarity 50.v.
                                                                                                                                                                                                              9 IASLKQEIDALE 20
                                                                                                                                                                                                                                            3 VASLRQQVEALQ 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 51 UNIVERSI
CITY: SEATTLE
STATE: WASHINGTON
COUNTRY: USA
ZIP: 98101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                roPoLOGY: linear
                   HYPOTHETICAL: N ANTI-SENSE: NO US-08-446-922-9
                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9, Application US/08446922
; Sequence 9, Application US/08446922
; Patent No. 5716805
; GENERAL INFORMATION:
APPLICANT: Spridgs, Melanie
APPLICANT: Stinivasan, Subhashini
TITLE OF INVENTION: Methods of Preparing Soluble, Oligomeric
TITLE OF INVENTION: Proteins
TITLE OF INVENTION: Proteins
TITLE OF INVENTION: Proteins
TITLE OF INVENTION: Methods of Preparing Soluble, Oligomeric
TITLE OF INVENTION: Proteins
TITLE OF INVENTION: Proteins
TITLE OF INVENTION
CORRESPONDENCES:
ADDRESSEE: Immunex Corporation
STREET: 51 University Street
CITY: Seattle
STRATE: WA
COUNTRY: USA
COUNTRY: USA
COMPUTER: Apple Macintosh
SPERATION NUMBER: US/08/446,922
FILLIAG DATA:
APPLICATION NUMBER: US/08/446,922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 39; DB 3; Length 25; Pred. No. 46; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATE:
APPLICATION NUMBER: USSN 08/107,353
FILING DATE: 08-13-93
CLASSIFICATION NUMBER: USSN 08/107,353
FILING DATE: 08-13-93
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia A
RECISTRATION NUMBER: 1003-A
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acide
TYPE: amino acide
PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB95/01104
FILING DATE: 16-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9409768.0
FILING DATE: 16-MAY-1994
ATTORNET! 16-MAY-1994
ATTORNET! MANDER: 620-10
REGISTRATION NUMBER: 32,955
REGISTRATION NUMBER: 620-10
TELEPHONE: (703) 816-4000
TELEPHONE: (703) 816-4100
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 29.5%;
Best Local Similarity 50.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 IASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                               , MOLECULE TYPE: peptide US-08-737-629-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
US-08-446-922-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

```
Gaps
                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER EADABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: MS Word for Apple Power Macintosh, version 6.0.1
CURRENT APPLICATION DATA:
FILLING DATE:
Score 39; DB 1; Length 27; Pred. No. 51; 6; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                       NOVEL CYTOKINE THAT BINDS CD40
                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION:
PRIOR APPLICATION NUMBER: 08/477,733
FILING DATE: June 07, 1995
CLASSIFICATION NUMBER: 07/969,703
FILING DATE: October 23, 1992
CLASSIFICATION NUMBER: 07/869,703
FILING DATE: December 5, 1992
CLASSIFICATION NUMBER: 07/805,723
FILING DATE: December 5, 1991
CLASSIFICATION NUMBER: 07/803,707
FILING DATE: October 25, 1991
CLASSIFICATION:
APPLICATION NUMBER: 07/783,707
FILING DATE: October 25, 1991
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia A.
REFERENCE/DOCKET NUMBER: 2802-D
TELECOMMUNICATION INFORMATION:
```

```
ઠે
                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                       SECULT 15

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-7318-24

9-0-47-74-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9-0-47-74

9
                                                                                                                                                                                                               ö
                                                                                                                                                  Score 39; DB 2; Length 27; Pred. No. 51; 6; Mismatches 0; Indels
                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
                                                                                                                                               Query Match
Best Local Similarity 50.0%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                   9 IASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                     3 VASLRQQVEALQ 14
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-484-624A-24
                                                                                                                                                                                                                                                                      ठ
                                                                                                                                                                                                                                                                                                                             셤
```

KIOS TRYTHYNY ISTR

WALE THE TOAR CHAIN

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein

April 27, 2005, 14:54:59; Search time 23:5 Seconds (without alignments) 114.641 Million cell updates/sec Run on:

1 KIAALKQKIASLKQEIDALEYENDALEQ 28 US-10-088-417A-1 132 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

5694 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 28

Post-processing: Minimum Match 0% , Maximum Match 100% Listing first 45 summaries

PIR_79:*
1: pirl:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	ribosomal protein	prothymosin alpha	ribosomal protein	superoxide dismuta	probable mauD prot	superoxide dismuta	T-cell receptor be	ribosomal protein	light meromyosin -	MauD protein - Par	hypothetical prote	hypothetical prote	2010	rot	bdellin B-3 - medi	hypothetical prote	alcohol dehydrogen		o)	histone H1.1 - whe	M protein pepM19 -	myosin - rabbit (f	ring.	troponin T, cardia	protein QA300026 -	nitrogenase (EC 1.	Q	thalate	pepsin A (EC 3.4.2
SUPERILES	ID	JP0069	S27229	JP0067	A61276	A38123	E58503	F38837	JP0066	A20923	PH0858	I40659	I40657	A44790	JP0065	A61417	F69265	S17646	S24279	A43431	A23605	PL0027	146492	A53592	A61032	PA0025	PN0467	S47281	B44560	PL0005
	82	7	~	~	~	~	7	N	~	N	~	~	~	~	~	~	~	~	~	~	N	~	~	~	~	~	~	~	~	7
	Match Length	22	52	52	20	27	16	21	22	18	. 53	21	21	25	27	28	56	27	23	24	25	56	27	20	14	15	19	24	. 25	28
Query	Match	25.0	25.0	23.5	22.7	22.7	22.0	22.0	22.0	21.2	21.2	20.5	20.5	20.5	20.5	20.5	20.1	20.1	19.7	19.7	19.7	19.7	19.7	19.3	18.9	18.9	18.9	18.9	18.9	18.9
	Score	33	33	31							28	27	27	27	27	27	26.5		26	26	56	56	26	25.5	25	25	25	25	25	25
Result	No.	н	7	m	4	ហ	9	7	89	O	10	11	12	13	14	15	16	17	18	19	70	21	22	23	24		56	27	28	29

photosystem I chai fructose-bisphosph superoxide dismuta	15K protein A - ra 15K protein B - ra cytolytic enteroto	hypothetical proce hypothetical prote myosin heavy chain cell surface prote	T-cell receptor be Ig H chain V-D-J r tubulin alpha-chai mastonaran M - hor	mastoparan - yello histamine-releasin
S06149 PA0076 PA0071	A38382 B38382 A30590	0XASD 150388 A44877	PH0914 PH1605 S65612 OMVHMM	QMMAUV JN0389
000	0000	7 7 7 7	7 7 7 7	7 7 7
20 15	7000	2272	112	111
18.6	188.5	18.52.2	17.4	17.4
24.5 24 24	1444	7 7 7 7	2222	23 23
30	1 W W W W	3 3 3 4 3 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	4 4 4 4 0 1 2 6	4 4 5 4 5

ALIGNMENTS

RESULT 1

ribosomal protein L30 - Thermomonospora mesophila (fragment)
C;Species: Thermomonospora mesophila
C;Species: Thermomonospora mesophila
C;Species: To-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 28-Oct-1994
C;Accession: J0069
R;Ochi, K.
R;Ochi, K

ö DB 2; Length 22; 5e+02; 9; Indels Query Match 25.0%; Score 33; DB Best Local Similarity 36.8%; Pred. No. 5e+0 Matches 7; Conservative 3; Mismatches

ô

Gaps

1 KIAALKOKIASLKOEIDAL 19 ð

4 KITQLRSKIGGKQNQXDXL 22 g

prothymosin alpha homolog - Escherichia coli (fragments) C;Species: Escherichia coli C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 10-Nov-1995 C;Accession: S27229

Accession: 3.7.2 Chichkova, N.; Lyakhov, I.; Makarova, T.; Evetafieva, A.; Bogdanov, A.; Vartapetian, A.; Chichkova, N.; Lyakhov, I.; Makarova, T.; Evetafieva, A.; Bogdanov, A.; FEBS Lett. 313, 95-97, 1992

FEBS Lett. 313, 95-97, 1992

A; Title: Segmente of Escherichia coli genome similar to the exons of human prothymosin a A; Reference number: \$27229; MUID:93050251; PMID:1426289

A; Reference number: \$27229

A; Refere

Length 25; Query Match
25.0%; Score 33; DB 2; Length 25;
Best Local Similarity 42.1%; Pred. No. 5.8e+02;
Matches 8; Conservative 4; Mismatches 7; Indels

ö

Gaps

. 0

10 ASLKOEIDALEYENDALEQ 28 ઠે

4 ASVNEENGELEADNDDDEE 22 요

RESULT 3 JP0067 ribosomal protein L30 - Thermomonospora chromogena (fragment)

ò 셤

```
T-cell receptor beta chain precursor V region (23.1) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 28-May-1992 #sequence_revision 28-May-1992 #text_change 23-Jul-1999
C;Date: 28-May-1992 #sequence_revision 28-May-1992 #text_change 23-Jul-1999
C;Accession: F38337
R;Jemesteu, Y; Wege, H; Straus, A.; Ott, M.; Bannwarth, W.; Lanchbury, J.; Panayi, G.; Proc. Natl. Acad. Sci. U.S.A. 88, 8534-8538, 1991
Proc. Natl. Acad. Sci. U.S.A. 88, 8534-8538, 1991
A;Ritler The T-cell-receptor repertoire in the synovial fluid of a patient with rheumato A;Reference number: A1299; MUID:92020887; PMID:1656449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rjochi, K.

submitted to JIPID, February 1994
A; Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal p. A; Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal p. A; Reference number: JP0042
A; Reference number: JP0046
A; Molecule type: protein
A; Residues: 1-22 < OCH>
A; Cross-references: UNIPROT:Q7M028
C; Keywords: protein biosynthesis; ribosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \lambda_j Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen C; Keywords: metalloprotein; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Nocardia asteroides
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004
C;Accession: JP0066
                                                                              superoxide dismutase (EC 1.15.1.1) - unidentified bacterium (fragment)
N/Alternate names: 21.3K bladder and kidney stone protein
C/Species: unidentified bacterium
C/Species: 07-Feb-1997 #sequence_revision 07-Feb-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-21 <UEM>
A;Residues: 1-21 <UEM>
A;Residues: 1-21 <UEM>
C;Stoperfamily: immunoglobulin V region; immunoglobulin homology
C;Reywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22.0%; Score 29; DB 2; Length 21; ilarity 40.0%; Pred. No. 1.5e+03; Conservative 4; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6: Indels
                                                                                                                                                                             C,Accession: E58503
R,Binette, J.P., Binette, M.B.
submitted to the Protein Sequence Database, October 1996
A,Description: The proteins of Kidney and gallbladder stones.
A,Reference number: A58501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ribosomal protein L30 - Nocardia asteroides (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A, Experimental source: human bladder and kidney stones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     y Match 22.0%; Score 29; DB 2; I
Local Similarity 40.0%; Pred. No. 1.2e+03;
hes 6; Conservative 3; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Cross-references: UNIPROT: Q7M137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ::||| :: ||
LSLNVNALELDDSAL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12 LKQEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MEHTLPPLPYEMDAL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12 LKQEIDALEYENDAL
                                                                                                                                                                                                                                                                                                                                                                                            A,Status: preliminary
A,Molecule type: protein
A,Residues: 1-16 <BIN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Apperoxide dismutase (EC 1.15.1.1) (Fe/Mn) homolog - chicken (fragment)
Nylternate names: osteoclast membrane glycoprotein
C,Species: Gallus gallus (chicken)
C,Species: Gallus gallus (chicken)
C,Species: Gallus gallus (chicken)
C,Date: 12-May-1994 #sequence_revision 12-May-1994 #text_change 05-Mar-1999
C,Accession: A61276
R;Oursler, M.J.; Li, L.; Osdoby, P.
J. Cell. Biochem. 46, 219-233, 1991
A;Fitle: Purification and characterization of an osteoclast membrane glycoprotein with ha;Reference number: A61276; MUID:92129474; PMID:1723667
A;Reference number: A61276
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-20 <0UR>
C;Function:
A;Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen C;Keywords: metalloprotein; oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cyaccession: A38123

Richistoserdov, A.Y.; Lidstrom, M.E.

Richistoserdov, A.Y.; Lidstrom, M.E.

J. Bacteriol. 173, 5909-5913, 1991

A;Title: The small-subunit polypeptide of methylamine dehydrogenase from Methylobacteriu

A;Reference number: A38123; MUID:91358386; PMID:1885555

A;Accession: A38123

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-27 < CMI>
A;COSS-references: UNIPROT:Q49126; GB:M57963
C;Species: Thermomonospora chromogena
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 28-Oct-1994
C;Datession: J0067
C;Accession: J0067
S;Ochi, K.
Submitted to JIPID, February 1994
A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal IAACcession: J00067
A;Reference number: J00042
A;Reference number: J00067
A;Residues: 1-25 <OCH>
C;Keywords: protein
C;Keywords: protein blosynthesis; ribosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      probable mauD protein - Methylobacterium extorquens (strain AMI) (fragment) C;Species: Methylobacterium extorquens C;Date: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22.7%; Score 30; DB 2; Length 27; llarity 29.2%; Pred. No. 1.5e+03; Conservative 8; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 30; DB 2; Length 20;
Pred. No. 1.1e+03;
1; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                      Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                               8; Indels
                                                                                                                                                                                                                                                                                                                                                                   / Match 23.5%; Score 31; DB 2; Local Similarity 31.6%; Pred. No. 1e+03; hes 6; Conservative 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 IAALKOKIASLKOEIDALEYENDA 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 KIAALKOKIASLKOEIDAL 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 KITOVRSKIGGKONOXDSL 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 53.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15 EIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ELPDLPYAYDALE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
7; Conserva
                                                                                                                                                                                                                                                                                                                                                                             Query Match
```

ઠે

셤 ठ

ò 셤

```
A;Molecule type: DNA
A;Residues: 1-21 <RES>
A;Cross-references: UNIPROT:Q46011; EMBL:X80997; NID:g530005; PIDN:CAA56920.1; PID:g530C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein 21 - Clostridium cochlearium (fragment)
C;Species: Clostridium cochlearium
C;Species: 12-Aug-1996 #sequence_revision 12-Aug-1996 #text_change 09-Jul-2004
C;Accession: 140657; S41331
R;Zelder, O.; Beatrix, B.; Buckel, W.
R;Zelder, O.; Beatrix, B.; Buckel, W.
R;Xelder, O.; Buckel, W.
R;Xelder, O.; Buckel, W.
R;Xelde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-21 <RES>
A;Cross-references: UNIPROT:Q46010; EMBL:X75890; NID:g441487; PIDN:CAA53483.1; PID:g4414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Accession: A44790
R:Sommerfelt, H.; Grewal, H.M.; Svennerholm, A.M.; Gaastra, W.; Flood, P.R.; Viboud, G., A.Title: Genetic relationship of putative colonization factor Ol66 to colonization factor A;Reference number: A44790; MUID:92363580; PMID:1354200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probable colonization factor Ol66 - Bscherichia coli (fragment)
C;Species: Bscherichia coli
C;Date: 24 Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accesion: A44790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ribosomal protein L30 - Streptomyces rochei (fragment)
C;Species: Streptomyces rochei
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 21-Aug-1998
C;Accession: JP065
                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 25;
                                                                                                                                                                                    Length 21
                                                                                                                                                                                                                                                         4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPROT:09R5J4
A;Note: sequence extracted from NCBI backbone (NCBIP:111010)
C;Superfamily: CFA1 fimbrial protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20.5%; Score 27; DB 2; Le. ilarity 41.7%; Pred. No. 2.7e+03; Conservative 3; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20.5%; Score 27; DB 2; Le:
llarity 41.2%; Pred. No. 3.2e+03;
Conservative 2; Mismatches 8;
                                                                                                                                                                                Score 27; DB 2; I
Pred. No. 2.7e+03;
3; Mismatches 4;
A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10 ASLKQEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASVDPTIDILQANGSAL 25
                                                                                                                                                                                    20.5%;
                                                                                                                                                                                Query Match 20.5
Best Local Similarity 41.7
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                      2 IAALKOKIASLK 13
                                                                                                                                                                                                                                                                                                                                                                                                       7 VKALKSKLLEVK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 IAALKOKIASLK 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : ||| |: :|
7 VKALKSKLLEVK 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Accession: A44790
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-25 <SOM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
hes 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PESULT 10
PH0858
Mau Protein - Paracoccus denitrificans (fragment)
C;Species: Paracoccus denitrificans
C;Species: Paracoccus denitrificans
C;Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 09-Jul-2004
C;Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 09-Jul-2004
C;Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 09-Jul-2004
F;Chistoserdon: Nav. A.Y.; Boyd, J.; Mathews, F.S.; Lidstrom, M.E.
Biochem. Biophys. Res. Commun. 184, 1181-1189, 1992
A;Title: The genetic organization of the mau gene cluster of the facultative autotroph FA;Reference number: PH0856; MUID:92272706; PMID:1590782
A;Residuence: PH0856
A;Molecule type: DNA
A;Residues: 1-23 cCHI>
A;Cross-references: UNIPROT:P29895; GB:M90098; NID:g150580; PIDN:AAA25577.1; PID:g150581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein - Clostridium cochlearium (fragment)
(Species: Clostridium cochlearium
C; Species: Clostridium cochlearium
C; Date: 12-Aug-1996 #sequence_revision 18-Oct-1996 #text_change 09-Jul-2004
C; Accession: 140659; 847461
R; Zelder, O.; Beatrix, B.; Leutbecher, U.; Buckel, W.
R; Zelder, C.; Bactrix, B.; Leutbecher, U.; Buckel, M.
A; Title: Characterization of the coenzyme-B12-dependent glutamate mutase from Clostridiu
A; Reference number: 140659; MUID:95094816; PMID:7880251
                                                                                                                                                                                                                                                                                                                                                                                                                                                             C; Species: Gallus gallus (Lincoln) (C; Species: Gallus gallus (Lincoln) (C; Species: G5-Jun-1987 #sequence_revision 05-Jun-1987 #sequence_revision 05-Jun-1987 #sequence_revision 05-Jun-1987 #secession: A2092;
C; Accession: A2092;
R; Nyitray, L.; Mocz, G.; Szilagyi, L.; Balint, M.; Lu, R.C.; Wong, A.; Gergely, J. J. Biol. Chem. 258, 13213-13220, 1983
A; Title: The proteolytic substructure of light meromyosin.
A; Reference number: A92403; MUID:84032553; PMID:6355107
A; Accession: A2092
A; Molecule type: protein
A; Residues: 1-18 & NYI>
A; Cross-references: UNIPROT:08JG72
C; Superfamily: myosin heavy chain; myosin motor domain homology
C; Keywords: ATP; muscle
                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                   A20923
light meromyosin - chicken (fragment)
C;Species: Gallus gallus (chicken)
C;Date: 05-Jun-1987 #sequence_revision 05-Jun-1987 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                      Length 22;
                                  Query Match 22.0%; Score 29; DB 2; Length 22; Best Local Similarity 31.6%; Pred. No. 1.6e+03; Matches 6; Conservative 4; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21.2%; Score 28; DB 2; Length 23;
46.2%; Pred. No. 2.2e+03;
ive 5; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5; Mismatches
                                                                                                                                                                                8 KIASLKOEIDALEYENDAL 26
                                                                                                                                                                                                                          |: :| | : d:|
4 KVTQIKSTIGAKANQKDSL 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 AFTQQIEELKRQLE 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 ALKOKIASLKOEID 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 46.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 AALKOKIASLKOE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |:|:| :| | |::
9 ASLQQYMASRKKQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: I40659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Gene: mauD
```

g

ઠે

ö

ö

ઠે g

```
R;Ochi, K. submitted to JIPID, February 1994
A.Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal pr
A;Reference number: JP0042
A;Accesslan: JP0065
A;Accesslan: JP0065
A;Molecule type: protein
A;Residues: 1.27 <OCH>
C;Superfamily: Escherichia coli ribosomal protein L30
C;Superfamily: Escherichia coli ribosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Acial7

Acial7

Acial7

C, Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 07-May-1999
R, Accession: K.; Fritz, H.
FEBS Lett. 64, 152-155, 1976
R, Aritle: Structural homology of a trypsin-plasmin inhibitor from leeches (bdellin B-3) NACCESSION: A61417
A, Reference number: A61417; MUID:76188026; PMID:131707
A, Accession: A61417
A, Accession: A61417
A, Molocule trype: protein
A, Residues: 1-28 < KRE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ő
                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 20.5%; Score 27; DB 2; Length 28; Best Local Similarity 40.0%; Pred. No. 3.6e+03; Matches 4; Conservative 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                           Query Match
20.5%; Score 27; DB 2; Length 27;
Best Local Similarity 36.8%; Pred. No. 3.5e+03;
Matches 7; Conservative 2; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                             1 KIAALKOKIASLKOEIDAL 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 KITQVKSYIGSKQNXXDTL 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17 DALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
```

Search completed: April 27, 2005, 15:07:07 Job time : 29.5 secs

| : |:|: | 17 DGVTYDNECL 26

В

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

April 27, 2005, 14:46:25; Search time 112 Seconds (without alignments) 128.020 Million cell updates/sec Run on:

Title: Perfect score: Sequence:

US-10-088-417A-1 132 1 KIAALKQKIASLKQEIDALEYENDALEQ 28

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1612378 segs, 512079187 residues Searched: Total number of hits satisfying chosen parameters:

23310

Minimum DB seq length: 0 Maximum DB seq length: 28

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	P81527 pasteurella		_	•		Q8zyy3 pyrobaculum		Q9qzx4 mus spretus	Ogdzx5 mus musculu	Q9uc80 homo sapien		065311 arabidopsis				_	Q7rlh1 plasmodium	Q9cs32 mus musculu	_					-	Q9uw16 methanosarc	Q9gne5 caenorhabdi	Q9uwf9 methanosarc				Q6ldf5 trichostron
αı	SODF PASPI	09UCS1	Q7RR69	044710	Q95Y34	QBZYY3	SODM_ENTAE	Q9QZX4	090ZX5	Q9UC80	9TCN6Q	065311	Q7M137	OXLA OPHHA	Q7M0Z8	Q7PCW4	Q7RLH1	Q9CS32	Q25867	Q661K4	Q9RQ27	Q6TAR1	Q63813	Q91QR9	Q9UWL6	O9GNES	Q9UWF9	Q71QT7	Q99JC5	Q9RAT7	Q6LDFS
DB	-	~	~	7	~	~	-	7	7	7	7	~	~	Н	~	~	~	7	~	~	~	7	7	~	~	~	~	~	~	~	7
& Query Match Length	20	23	26	22	16	28	15	18	18	19	27	28	16	19	22	25	25	56	27	27	24	15	21	22	23	24	26	56	56	28	15
% Query Match	28.8	28.8	26.5	25.8	24.2	24.2	23.5	23.5	23.5	23.5	23.5	22.7	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	٠	•	21.2	٠	21.2		21.2	•	21.2	21.2	20.5
Score	38	38	35	34	32	32	31	31	31	31	31	30	29	29	29	29	29	29	29	29	28.5	28	28	28	28	28	28	28	28	28	27
Result No.	1	7	3	4	ഗ	9	7	80	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23		25	26	27	28	29	30	31

	Q9bm05 habrotrocha
Q9PS13 Q8S9F3 Q46010 Q46011 Q6VRM6 Q9TK68 Q9TK12 Q9KT12 Q9KT12 Q9KT12 Q9TS3 Q9TS33 Q64FW9 Y126_ARCFU	Q9BM05
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0
L G G G G G G G G G G G G G G G G G G G	56
00000000000000000000000000000000000000	20.1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26.5
U U U U U U U U U U U U U U U U U U U	45

# ALIGNMENTS

RESULT 1

				gment).		Pasteurella piscicida (Photobacterium damsela (subsp. piscicida)).	a; Vibrionales;							8 A.E.;	"Superoxide dismutase and catalase in Photobacterium damselae subsp.	piscicida and their roles in resistance to reactive oxygen species.";		-!- FUNCTION: Destroys radicals which are normally produced within the	systems.	ACTIVITY: 2 superoxide + 2 H(+) = $O(2) + H(2)O(2)$ .	COFACTOR: Binds 1 iron ion per subunit (By similarity).			SIMILARITY: Belongs to the iron/manganese superoxide dismutase					protein sequencing; Iron; Metal-binding; Oxidoreductase;			A8D31FDAE8553B6D CRC64;	; Length 20;	, 4; Indels 0; Gaps
20 AA.		te)	date	(Fra		msel	teri							Elli	otob	to r		e no	cal	+) H	it (			anes					indi			53B6	DB 1;	e+03 e8
20		upda	dn u	ਜ਼		m da	opac							., H	n Ph	nce		h ar	logi	+ 2	upan	· (X	υ.	mang					al-b			AE85		o. 1 atch
PRT;	ed)	sequence update)	annotation update)	(EC 1.15.1.1) (Fragment).		obacteriu	ammaprote	·.					075430;	Horne M.	atalase i	n resista	. (66	cals whic	ic to bio	uperoxide	ion per B	similarit	eriplasmi	the iron/			utase.		Iron; Met				Score 38;	Pred. No. 1e+03; 1; Mismatches
STANDARD;	37, Created)	Last	, Last	[Fe]		ida (Phot	ıcteria; G	obacteriu					PubMed=10	ona M.C.,	ase and c	r roles i	183-494 (19	roys radio	th are tox	VITY: 2 81	le 1 iron	limer (By	SUBCELLULAR LOCATION: Periplasmic.	longs to		.:	19; SODism	Fe_N; 1.	mencing;		20	2153 MW;		ilarity 61.5%; Conservative
ST	(Rel.	(Rel. 37,	(Rel. 44,	dismutase		piscio	oteoba	; Phot	8294;			5,	3752;	Balek	dismut	d thei	145:4	: Dest	d which	CACT	: Bind	Homod	LAR IS	IY: BE		; 11S(	R00118	1; 800	in sec		20	20 AA;	:	Similarity 8; Conser
SODE PASPI ID SODE PASPI			05-JUL-2004		Name=sodB;	Pasteurella ₁	Bacteria; Proteobacteria; Gammaproteobacteria;	Vibrionaceae; Photobacterium.	NCBI TaxID=38294;	E	SEQUENCE.	STRAIN=MT1415;	MEDLINE=99173752; PubMed=10075430;	Barnes A.C., Balebona M.C., Horne M.T., Ellis A.E.,	"Superoxide	piscicida and	Microbiology	- I - FUNCTION	cells and	-!- CATALYTIC	- ! - COFACTOR	-!- SUBUNIT:	-1- SUBCELLUI	-!- SIMILARIT	family.	HSSP; P09157; 1ISC.	InterPro; IPR001189; SODismutase.	Pfam; PF00081; Sod_Fe_N; 1.	Direct protei	Periplasmic.	NON TER	SEQUENCE 20		Best Local Simil Matches 8; (
SODE	A F	D	Ę	DE	S	S	ខ	႘	ŏ	RN	ЯP	22	ă	Ą	RT	RT	7.	ပ္ပ	ပ္ပ	ပ္ပ	ខ	ပ္ပ	႘	႘	ខ	ä	ద	ద	¥	Ž	FT	Š	8,	M Be

15 EIDALEYENDALE 27 3 ELPALPYAKDALE 15 ò 셤

ö

Q9UCS1 PRELIMINARY; PRT; 23 AA.
Q9UCS1;
Q1MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
TROPOMYOSIN=33 kDa calcium binding protein fragment A (Fragment). RESULT 2 Q9UCS1 ID Q9UCS AC Q9UCS DT 01-M DT 01-M

```
Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

STRAIN-Goldendale 3;

MEDLINE=99442399; PubMed=10511563;

Hamblin M.T., Aquadro C.F.;

Hamblin M.T., Aquadro C.F.;

The prosophila pseudochscura. A study of the second chromosome.";

Genetics 153:859-869 (1999).

EMBL; AF039274; AAB96670.1; -.

REMBL; AF039274; AAB96670.1; -.

REMBL; AF039273; AAB96670.1; -.

REMBL; AF039273; Tropomyosin.

Figur, PF00261; Tropomyosin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
                                                                                                                                                                                         Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Courtney L.;
"The sequence of C. elegans cosmid Y108G3AL.";
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Waterston R.H.;
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22 AA; 2611 MW; F86B844608F4175C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             055Y34;
01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Hypothetical protein Y108G3AL.6.
Name=Y108G3AL.6; ORFNames=Y108G3AL.6;
            01-JUN-1998 (TrEMBLrel. 06, Created)
01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
Tropomyosin 1 isoform e (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25.8%; Score 34; DB 2; I 35.3%; Pred. No. 3.3e+03; ative 7; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16 AA
                                                                                                                                                                    Drosophila pseudoobscura (Fruit fly).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 KOKIASLKOEIDALEYE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 EKQVKRĽQKEVDRĽEDE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 35.3 les 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WormBase Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. STRAIN-Bristol N2; Waterston R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NON TER
NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q95Y34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SO PRESENTATION OF THE PROPERTY OF THE PROPERT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Genome sequence and comparative analysis of the model rodent malaria parasite Plasmodium yoelli yoelli."; Nature 419:512-519 (2002).

-i- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=17XMI,
PubMed=1286865; DOI=10.1038/nature01099;
PubMed=12368865; DOI=10.1038/nature01099;
Silva J.C., Emplaceva M.D., Allen J.E., Scelengut J.D., Koo H.L.,
Silva J.C., Emplaceva M.D., Allen J.E., Selengut J.D., Koo H.L.,
Peterson J.D., Pop M., Kosack D.S., Shumway M.F., Bidwell S.L.,
Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V.,
Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M.,
Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A.,
Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B.,
Van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
   Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                         Erne P.; "The calcium binding protein tropomyosin in human platelets and cardiac tissue: elevation in hypertensive cardiac hypertrophy."; Submitted (AUG-1992) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                          Crabos M., Yamakado T., Heizmann C.W., Cerletti N., Buhler F.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          plasmodium yoelii yoelii.
Bukaryota, Alveolata, Apicomplexa, Haemosporida, Plasmodium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26.5%; Score 35; DB 2; Length 26; 35.0%; Pred. No. 3e+03; 7; Indels ive 6; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                     28.8%; Score 38; DB 2; Length 23; 47.1%; Pred. No. 1.2e+03; tive 4; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                   23 AA; 2475 MW; EBD4B463017E7716 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26 AA; 3147 MW; C3507C4723F4490A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-WAR-2004 (TrEMBLrel. 26, Created)
01-WAR-2004 (TrEMBLrel. 26, Last sequence update)
01-WAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       preliminary data.
EMBL, AABL01000232; EAA19000.1; -.
Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 ALKOKIASLKOEIDALEYEN 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | |:| |:| |:| |:| |:| AFKRKAKKYKEENESLIYDS 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 ALKOKIASLKQEIDALE 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 47.1%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 35.v.
7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=73239;
                                                                                   NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carucci D.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q7RR69;
```

RESULT 3 O7RR69

ò 셤 22 AA.

PRT;

PRELIMINARY;

044710 RESULT 4 044710 ID 0447:

ò

ö

Gaps

., 0

Length 22; 4; Indels

Gaps

```
Agric. Biol. Chem. 55:101-108(1991).

-!- FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems.

-!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).

-!- COFACTOR: Binds 1 iron ion per subunit (By similarity).

-!- SUBUNIT: Homodimer.

-!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase
                                                   "Genome sequence of the hyperthermophilic crenarchaeon Pyrobaculum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enterobacter aerogenes (Aerobacter aerogenes).
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Enterobacter.
  Fitz-Gibbon S.T., Ladner H., Kim U.-J., Stetter K.O., Simon M.I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus spretus (Western wild mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE.
MEDLINE=91248479; PubMed=1368658;
MEDLINES.W., Lee S.O., Lee T.H.;
"Purification and characterization of superoxide dismutase from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR001189; SODismutase.
Pfam; PF00081; Sod Pe N; 1.
PROSITE; PS00088; SOD MN; PARTIAL.
Direct protein sequencing; Iron; Metal-binding; Oxidoreductase.
NON_TER
                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                  Length 28;
                                                                                                                                                                                                                               24.2%; Score 32; DB 2; Length 28; 33.3%; Pred. No. 7.2e+03; Pred. No. 7.2e+03; Ative 5; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 31; DB 1; Length 15; Pred. No. 5.2e+03; 1; Mismatches 5; Indels
                                                                                                  Proc. Natl. Acad. Sci. U.S.A. 99:984-989(2002).
EMBL, AE009773; AAL6285.1; Complete protecome; Hypothetical protein.
SEQUENCE 28 AA; 3001 MW; 869F81422CS3A14D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15 AA; 1756 MW; 352F3D949202E642 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (TrEMBLrel. 13, Last sequence update) (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-AUG-1991 (Rel. 19, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Superoxide dismutase [Fe] (EC 1.15.1.1) (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                           3 VAEIKASVAELKVAVGSL 20
                                                                                                                                                                                                                                                                                                                                          2 IAALKOKIASLKOEIDAL 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23.5%;
53.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (TrEMBLrel. 13,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15 EIDALEYENDALE 27
                                                                                                                                                                                                                                                                                         6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 ELPQLPYAYDALE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity 53.8 ses 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Aerobacter aerogenes."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-2000 (TrEMBLrel
01-JUN-2002 (TrEMBLrel
Desmoplakin (Fragment)
Name=Dsp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PIR; PN0615; PN0615.
                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=548;
                                Miller J.H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SODM ENTAE
P22799;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-AUG-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=BodA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0902X4
0902X4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SODM ENTAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0902X4
     SORPETARA
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=IM2;
MEDLINE=21664397; PubMed=11792869; DOI=10.1073/pnas.241636498;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 32; DB 2; Length 16;
Pred. No. 4.2e+03;
5; Mismatches 4; Indels
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                       Waterston R.;
Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       wilson K.;
Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.
EMBL, AC024744; AAL13126.1; -.
WormBase; WBGGne00022437; X108G3AL.6.
WormPep; X108G3AL.6; CE29605.
Hypochetical protein.
SEQUENCE 16 AA; 1904 MW; 4932099B5AA361E5 CRC64;
                                                                                                                                                                                                                                                             Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                           Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pyrobaculum aerophilum.
Archaea; Crenarchaeota; Thermoprotei; Thermoproteales;
Thermoproteaceae; Pyrobaculum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAR-2002 (TrEMBLrel. 20, Created)
01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-UNN-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein PAE0551.
OrderedLocusNames=PAE0551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 35.7%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EIDALEYENDALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |:| :||: |:
EVDDSDYEDSDIEE 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Waterston R.;
Submitted (NOV-2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wilson R.;
Submitted (MAR-2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN=Bristol N2;
WormBase Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A. STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN-Bristol N2;
Waterston R.;
                                                                                                                                                                              SEQUENCE FROM N.A. STRAIN=Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. STRAIN-Bristol N2;
                                                   SEQUENCE FROM N.A. STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A. STRAIN=Bristol N2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=13773;
                                                                                                                                                                                                                                     Waterston R.;
                                                                                                                                                                                                                                                                                                                                                                     Waterston R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wilson R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QBZYY3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 6
082XY3
1D 082XY3
AC 082XI
DT 01-M
DT
```

ö

Gape

δ

Gaps

ö

Indels

RESULT 9

셤 ò

```
Figure 7.P., Binette M.B.; "Sequencing of proteins extracted from stones."; "Sequencing of proteins extracted from stones."; submitted (JUL-1995) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems (By similarity).
-!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).
-!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Spermatophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota, Buglenozoa, Kinetoplastida, Trypanosomatidae, Leishmania.
NCBI_TaxID=5664;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 27;
                                                                                                                                                                                                                                                                                                                       Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
Ch'ang L.Y., Lee T.;
Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
EMBL, AF11067-3 AAR66093.1; -.
GO; GO:0019861; C:flagellum; IEA.
                                                                                                                                                               GO; GO: 0016491; F: metal ion binding; IEA.
GO; GO: 0016491; F: metal ion binding; IEA.
GO; GO: 0016491; F: superoxide dismutase activity; IEA.
GO; GO: 006801; F: superoxide metabolism; IEA.
InterPro; IPR001189; SODismutase.
Pfam; PR0081; Sod_Re_N; 1.
SEQUENCE 19 AA, 2116 MW; AODODAE848EE7894 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OC5ADB2B6B425ED9 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Major paraflagellar rod protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 31; DB 2; I
Pred. No. 9.1e+03;
                                                                                                                                                                                                                                                                                                                                        6.5e+03;
                                                                                                                                                                                                                                                                                                                       DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 AA
                                                                                                                                                                                                                                                                                                                       Score 31; DB 2
Pred. No. 6.5e4
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=TUB9;
Arabidopsis thaliana (Mouse-ear cress).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                        23.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27 AA; 3005 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23.5%;
53.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-AUG-1998 (TrEMBLrel. 07, 01-AUG-1998 (TrEMBLrel. 07, 01-DEC-2001 (TrEMBLrel. 19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beta-9 tubulin (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | |||: : |||
1 IVALKKTLNELKQ 13
                                                                                                                                                                                                                                                                                                                                                                                                              |: | |:||:
3 ELPPLPYAHDALQ 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 IAALKQKIASLKQ 14
                                                                                                                                                                                                                                                                                                                                                                                         15 EIDALEYENDALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              . PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                          6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
                                                                                                                                                        HSSP; P09223; 1DTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Flagellum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NON TER
NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  065311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  065311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q9NJT6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
065311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1
                                                                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-0CT-2004 (TrEMBLrel. 13, Last sequence update)
25-0CT-2004 (TrEMBLrel. 28, Last annotation update)
21.5 kDa stone matrix protein (EC 1.15.1.1) (Superoxide dismutase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Musinae, Mus
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NCBI_TaxID=10096;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5
                                                                                                                                                                                                                                                             5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GEOUENCE FROM N.A.

Green K.J., Guy S.G., Cserhalmi-Friedman P., McLean W.H.I.,
Gristiano A.M., Wagner R.M.;
Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
EMBL, AF148515; AAF02528.1;
EMBL, AF148515; AAF02528.1;
OND TER 1 1
NON TER 1 18 18
SEQÜENCE 18 AA; 2289 MW; 3B41DF23C1E2F960 CRC64;
                                                                                                                                                                                                                          Score 31, DB 2; Length 18;
Pred. No. 6.2e+03;
6; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 31; DB 2; Length 18;
Pred. No. 6.2e+03;
6; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18 AA; 2289 MW; 3B41DF23C1E2F960 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAY-2000 (TrEMBLrel. 13, Created) 01-MAY-2000 (TrEMBLrel. 13, Last sequence update) 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                18 AA.
                                                                                                                                                                                                                                                           6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 NLRQEIE--KFQKQALE 18
                                                                                                                                                                                                                                                                                                                : | | | | | : : : | | | | 4 NLRQEIE--KFOKOALE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 SLKQEIDALEYENDALE 27
                                                                                                                                                                                                                                                                                              27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 23.5%;
Best Local Similarity 41.2%;
Matches 7; Conservative
                                                                                                                                                                                                                             Query Match 23.5%;
Best Local Similarity 41.2%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
25-OCT-2004 (TrEMBLrel. 28,
                                                                                                                                                                                                                                                                                              11 SLKQEIDALEYENDALE
                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Desmoplakin (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. STRAIN=C75BL6/J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NON TER
NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q9UC80
                                                                                                                                                                                                                                                                                                                                                                                                                Q9QZX5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
O9UC80
```

SOC CONTRACTOR OF THE CONTRACT

ద

ઠે

ö

Gaps

;

```
Ponnudurai G., Chung M.C.M., Tan N.-H.;
"Purification and properties of the L-amino acid oxidase from Malayan
pit viper (Calloselasma thodostoma) venom.";
Arch. Biochem. Biophys. 313:373-378(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=97449790; PubMed=9304806; DOI=10.1016/S1357-2725(97)00024-1;
                                                                                 TISSUE=Venom;
MEDLINE=94361525; PubMed=8080286; DOI=10.1006/abbi.1994.1401;
                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 1-15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NON TER
SEQUENCE
[1]
SEOUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NON TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q7M0Z8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 15
    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ID DTT ACCOUNT THE BEAUTH OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Binette J.P., Binette M.B., Submitted (OCT-1996) to the PIR data bank.
-!- FUNCTION: Destroys radicals which are normally produced within the cells and which are toxic to biological systems (By similarity).
-!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).
-!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 38, Last sequence update)
15-UUL-1999 (Rel. 38, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
Lamino-acid oxidase (EC 1.4.3.2) (LAO) (LAOO) (Pragment).
Ophiophagus hannah (King cobra) (Naja hannah).
Ebkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Elapidaes, Slapinae; Ophiophagus.
NCBI_TaxID=8665;
                              SEQUENCE PROM N.A. Sanders P.M., McIntire K.N., Hsu Y.C., Sanders P.M., Truong M.T., Beals T.B., Goldberg R.B.; "Anther Development Defects in Arabidopsis thaliana Male-Sterile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 29; DB 2; Length 16;
Pred. No. 9.5e+03;
3; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 30; DB 2; Length 28;
Pred. No. 1.2e+04;
3; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PIR; E58503; E58503.

GO; GO:0046872; F:metal ion binding; IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

GO; GO:000484; F:superoxide dismutase activity; IEA.

GO; GO:006801; P:superoxide metabolism; IEA.

InterPro; IPR001189; SODismutase.

PFam; PF00081; Sod_Fe_N; 1.
                                                                                                                                                                                                                                                                                                                                                                28 AA; 3388 MW; 8060E4E537BE670E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 AA; 1828 MW; 12DE78949AC43609 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-MAR-2004 (TrEMBLrel. 26, Last sequence update) 01-MAR-2004 (TrEMBLrel. 26, Last annotation update) Superoxide dismutase (EC 1.15.1.1) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 VARYQQYQDATVGEEFYEEDEEEE 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 IASLKQEIDAL----EYENDALEQ 28
                                                                                                                                                                                                                       Sex. Plant Reprod. 11:297-322(1999).
EMBL; AF060248; AAC97107.1; -.
NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2004 (TrEMBLrel. 26, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; environmental samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 22.7%;
Best Local Similarity 37.5%;
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12 LKQEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MEHTLPPLPYEMDAL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              unidentified bacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Beet Local Similarity
6; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OPHHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NON TER
SEQUENCE
                                                                                                                                                                                                     Mutants."
                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OXLA OPH
P81383;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
OXLA OPHTA
1D AC P81363
DT 15-UDC.
DT 25-OCT.
DT 25-OCT.
DC C EURATYPI
OC C LEPIGO
OC ELEPIGO
OC ELE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q7M137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SET THE PRESENCE OF THE PROPERTY OF THE PROPER
SY RE REPRES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
Ahn M.Y., Lee B.M., Kim Y.S.;
"Characterization and cytotoxicity of L-amino acid oxidase from the "Characterization and cytotoxicity of L-amino acid oxidase from the venom of king cobra (Ophiophagua hannah).";
Int. J. Biochem. Cell Biol. 29:911-919(1997).
-!- FUNCTION: Has cytotoxic activity (By similarity).
-!- CATALYTIC ACTIVITY: An L-amino acid + H(2)O + O(2) = a 2-oxo acid + NH(3) + H(2)O(2).
-!- COFACTOR: FAD.
-!- COFACTOR: FAD.
-!- SUBUNIT: Homodimer (Probable).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                         -i- PTM: Glycosylated.
-i- SIMILARITY: Belongs to the flavin monoamine oxidase family.
Strong, to mammalian FIGI.
Direct protein sequencing; FAD; Flavoprotein; Glycoprotein;
Oxidoreductase; Toxin.

H -> S (in Ref. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                           Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22 AA; 2330 MW; 5C7E71FB6FD577CA CRC64;
                                                                                                                                                                                                                                                                                                                                                                            19 AA; 2298 MW; DD911A5B414F1427 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-2004 (TrEMBLrel. 26, Created)
01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 29; DB 2; Le
Pred. No. 1.3e+04;
4; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                        Score 29; DB 1; I
Pred. No. 1.1e+04;
4; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ochi K.;
Submitted (FEB-1994) to the PIR data bank.
PIR; JP0066; JP0066.
NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Corynebacterineae; Nocardiaceae; Nocardia
NCBI_TaxID=1824;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Search completed: April 27, 2005, 15:06:16 Job time : 122 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribosomal protein L30 (Fragment). Nocardia asteroides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 KIASLKQEIDALEYENDAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 VINLEESFQEPEYEN 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 IASLKQEIDALEYEN 23
                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity 33.3 see 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
```

BEST AVAILABLE COPY

MAR THE LANGE HAT

```
Query Match 100.0%; Score 137; DB 4; Length 28; Best Local Similarity 100.0%; Pred. No. 3.2e-11; Matches 28; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ١
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aab74346 Peptide S
Aab74347 Peptide S
Aab74349 Peptide S
Aab74348 Peptide S
Aab74356 Peptide S
Aab74356 Peptide S
Aab74357 Peptide S
Adm41437 Self-asse
Adm41437 Peptide S
Aab7437 Peptide S
Aab7437 Peptide S
Aab74341 Peptide S
Aab74351 Peptide S
Aab74350 Peptide S
Aab74350 Peptide S
Aab74350 Peptide U
Ab74350 Peptide U
Ab74350 Peptide U
Ab76359 Peptide C
Aab06381 Peptide C
Aab74350 Peptide C
                                                                                                                          April 27, 2005, 14:45:41 ; Search time 122 Seconds (without alignments) 88.765 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                  794064
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                    1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                   2105692 segs, 386760381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100% :
Listing first 45 summaries
                                                                                     OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB74348
AAB74356
AAB74355
AAB74345
ADM41434
ADM41437
ABR84737
AAB74351
AAB74351
AAB74351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB74350
AAB08382
ABR84735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB74342
AAB74355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABR84736
AAB21683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADD93917
AAB08388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB74346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB74340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB74347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB74349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB08381
                                                                                                                                                                                                                                                                                                              BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003as:*
8: geneseqp2003bs:*
                                                                                                                                                                                                                    US-10-088-417A-4
137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          seg length: 0
seg length: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database :
                                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ģ
```

26 50 36.5 23 6 ADA00699  Ada00699 Protein m 27 47 34.3 14 2 AAW71411 Aaw80528 Betc-shee 28 47 34.3 15 2 AAW80528 Aaw71411 Peptide f 30 47 34.3 15 2 AAW80545 Aaw71421 Peptide h 31 47 34.3 15 2 AAW80545 Aaw80545 Peptide h 32 47 34.3 21 5 AAW77417 34 47 34.3 21 6 ABJ37799 Abj37799 Human bre 34 47 34.3 21 6 ABJ37799 Abj37799 Human bre 36 47 34.3 21 7 ADL931246 Adl93196 Human bre 37 47 34.3 21 7 ADL931249 Adl93196 Human bre 38 45 32.8 28 4 AAB7444 Aau14021 Peptide C 42 44 32.1 24 3 AAY95963 Adl99341 Nanostruc 42 44 32.1 24 3 AAY95963 Adl3914 Nanostruc 43 11.4 17 ADL3146 Adl39141 Nanostruc 44 43 31.4 14 7 ADL3146 Adj39146 Amphipath 45 ABJ37808 Human tum	4 6 1	<pre>:D AAB74346 standard; peptide; 28 AA. CX AAB74346; CX</pre>	NW W0200121646-A1.  XX	(UYSU-) UNIV SUSSEX.  While the state of the		peptide monomer units arranged in a first strand and several secon peptide monomer units arranged in a second strand. The structure i useful in Atomic Force Microscopy and a number of other application present sequence is the peptide monomer unit SAF.p2B
 	RESULT	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			XX PYTHYX CX XX PTHYX CC CT C	

Gaps

ö

1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28

Force

셤

```
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second upptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2D
                                                                                                                                                                                                                                       The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second septide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New protein structures with peptide monomer units, useful in Atomic Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                       New protein structures with peptide monomer units, useful in Atomic E
Microscopy, purifying biological fluids, promoting tissue repair and
tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                             Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                                                                                                                             Query Match
90.5%; Score 124; DB 4;
Best Local Similarity 96.4%; Pred. No. 1.7e-09;
Matches 27; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
..
                                                                             Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Colyer
                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KIRALKCKNAHLKOEIAALEOEIAALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pandya MJ,
                                                                             Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                Disclosure; Page 9; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB74348 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Atomic Force Microscopy; AFM
              99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Walshaw J,
                                                                             Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UYSU-) UNIV SUSSEX
                                                                                                             WPI; 2001-335468/35.
                                             (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Peptide SAF-p2D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                  Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Woolfson DN,
              17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
                                                                               Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB74348;
                                                                               Woolfson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB74348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAP-p2C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Force
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New protein structures with peptide monomer units, useful in Atomic Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sleves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 / Match 100.0%; Score 137; DB 4; Local Similarity 100.0%; Pred. No. 3.2e-11; les 28; Conservative 0; Mismatches 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
   28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KIRALKWKNAHLKQEIAALEQEIAALEQ
   KIRALKWKNAHLKQEIAALEQEIAALEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ź
                                                                                      2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 16; Page 26; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB74349 standard; peptide; 28
                                                                                      AAB74347 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                        18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                       Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                           99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                         (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide SAF-p2E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200121646-A1.
                                                                                                                                                                                       Peptide SAF-p2C
                                                                                                                                                                                                                                                                                        WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Woolfson DN,
                                                                                                                                                                                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-JUL-2001
                                                                                                                                                       02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-MAR-2001
                                                                                                                                                                                                                                                                                                                          29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB74349;
                                                                                                                    AAB74347;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Loc
Matches
```

Force

RESULT 3 AAB74349

à 셤 ö

Gaps

; 0

RESULT 5 AAB74356

셤

ઠે

```
New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 123; DB 4;
Pred. No. 2.4e-09;
0; Mismatches 1;
                                                                                                                                                                               Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KIRALKWKNAHLKOBIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Walshaw J, Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 9; 45pp; English
                                                                                                                                                                                                                                                                                                    Claim 16; Page 26; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB74345 standard; peptide; 28
                                                                                      18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         89.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-2000; 2000WO-GB003576.
                                                                                                                    99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27; Conservative
                                                                                                                                                                                                           WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-335468/35.
                                                                                                                                                 (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peptide SAF-p2A
                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 28 AA;
                            WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200121646-A1
Unidentified.
                                                                                                                                                                               Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Woolfson DN,
                                                                                                                   17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-JUL-2001
                                                          29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB74345;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB74345
ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             useful in Atomic Force
tissue repair and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is a peptide used to form blunt-ended heterodimers
                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New protein structures with peptide monomer units, useful in Al
Microscopy, purifying biological fluids, promoting tissue repai
tissue engineering, or constructing nanoscale molecular sieves
            Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 28;
                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
            Score 123; DB 4; L. Pred. No. 2.4e-09; 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match

89.8%; Score 123; DB 4;
Best Local Similarity 96.4%; Pred. No. 2.4e-09;
Matches 27; Conservative 0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Colyer J;
                                                                                                                                                                                                                                                                      Peptide used to form blunt-ended heterodimers
                                                                     1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pandya MJ,
                                                                                                                                                                               Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Fig 8; 45pp; English.
                                                                                                                                                                             AAB74356 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB74352 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Atomic Force Microscopy; AFM
            Query Match
Best Local Similarity 96.4%;
Matches 27; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         99GB-00022013
                                                                                                                                                                                                                                                                                                  Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Woolfson DN, Walshaw J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYSU-) UNIV SUSSEX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                              WO200121646-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide SAF-p2
                                                                                                                                                                                                                                                                                                                                    Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-JUL-2001
                                                                                                                                                                                                                                        02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                              29-MAR-2001
                                                                                                                                                                                                           AAB74356;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB74352;
```

RESULT 6 AAB74352

셤

ઠ

28

1 KIRALKWKNAHLKQEIAALEQEIAALEQ

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                       용
  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is that of self-assembling peptide fibre (SAF) SAF-
p2a. The invention relates to fibre-shaping (FiSh) peptides ADM41434-
ADM41435 that are capable of interacting with SAFs to form protein
structures. The FiSh peptides allow morphological changes (branches,
splits, kinks and bends) to be made to protein fibres comprising SAFs. By
incorporating such morphological changes in the protein fibres, it is
possible to generat a variety of (nanoscale) protein structures, such as
sasemblies in general, including matrix, filter, network, grid and
scaffold structures. Use of the protein structures in the putification of
biological fluids, for assembling cells for cell and tissue engineering,
and in surface engineering procedures is claimed.
                                                                                                                                                                                                                                       ö
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                          ö
                                                                                                                                                                                             Length 28;
                                                                                                                                                                     Score 122; DB 4; Length 20.
Pred. No. 3.2e-09;
Pred. Tropped 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fibre-shaping peptide; self-assembling peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                         1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                    Self-assembling peptide fibre SAF-p2a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 36; Page 22; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADM41438 standard; peptide; 28 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-SEP-2003; 2003WO-GB003900.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-SEP-2002; 2002GB-00020805
                                                                                                                                                                                             Query Match
Best Local Similarity 92.9%;
Matches 26; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ryadnov MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-248444/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2004022584-A1
                                                                                                                                                      Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Woolfson D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM41438;
                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
ADM41438...
ID ADM41438...
ADM41438...
ADM41438...
AC ADM4
XX ADM4
XX ADM5...
ADM5...
ADM5...
ADM6...
                                                                                                                                                                                                                                                                                                                                          а
              ន្តន្តន្តន្តន្ត
                                                                                                                                                                                                                                                                                                ò
```

Gaps

ö

Score 105; DB 8; Length 28; Pred. No. 5.9e-07; ); Mismatches 4; Indels

,

Query Match
Best Local Similarity 85.7%;
Matches 24; Conservative

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is that of a self-assembling peptide fibre (SAF). The invention relates to fibre-shaping (FiSh) peptides ADM41434-ADM41435 that are capable of interacting with SAFs to form protein structures. The FiSh peptides allow morphological changes (branches, splits, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein structures, such as assemblies structures use of the protein structures used as assemblies structures. Use of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering procedures is claimed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 100; DB 8; Length 27;
Pred. No. 2.7e-06;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                           Fibre-shaping peptide; self-assembling peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
               28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 IRALKWKNAHLKQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27
1 IRLKOKNARLKOBIAALEYEIAALEO
                                                                                                                                                                                                                                                                                  Self-assembling peptide fibre (SAF).
                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 30; Page 22; 37pp; English.
                                                                                                                                         Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABR84737 standard; peptide; 28
                                                                                                                                      ADM41437 standard; peptide; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Match 73.0%;
Local Similarity 85.2%;
(es 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-SEP-2002; 2002GB-00020805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-SEP-2003; 2003WO-GB003900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ryadnov MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYSU-) UNIV SUSSEX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-248444/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 27 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004022584-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                      Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Woolfson D,
                                                                                                                                                                                                                                       03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Si
Matches 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABR84737;
                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                         ADM41437;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABR84737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SXXXE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
```

Gaps

ö

日日

```
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Porce Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAP-plC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-pl
                                                                               useful in Atomic Force tissue repair and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New protein structures with peptide monomer units, useful in Atomic Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                               New protein structures with peptide monomer units, useful in At
Microscopy, purifying biological fluids, promoting tissue repai
tissue engineering, or constructing nanoscale molecular sieves
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 75; DB 4;
Pred. No. 0.006;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 75; DB 4;
Pred. No. 0.006;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KIRALKWKNAHLKOBIAALEOBIAALEO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KIAALKOKIASLKOBIDALEYENDALEO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                  Claim 16; Page 26; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 16; Page 26; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB74351 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             54.7%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54.7%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ٦,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Walshaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-335468/35.
                              WPI; 2001-335468/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide SAF-pl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB74351;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB14351
AAB
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a composition which comprises a pair of antibody Fv fragments linked and stabilised by antiparallel heterogeneous alpha-helical coiled-coil (AHEC) peptides. The composition is used to form multimeric complexes and therapeutic antibodies and antibody fragments useful for e.g. inhibition of receptor binding and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Composition useful for forming therapeutic antibodies and antibody fragments comprises pair of antibody Fv fragments linked and stabilized by antiparallel heterogeneous alpha-helical coiled-coil peptides.
                                                                                  Antibody Fv chain; stabilisation; assembly; alpha-helical coiled-coil;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  targeting of drugs, toxins and labels in research, industry and healthcare. The present sequence is an AHEC peptide used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             59.1%; Score 81; DB 7; Length 28; 64.0%; Pred. No. 0.00095; ive 6; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Walshaw J, Pandya MJ, Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neilson RW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 ALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |:|:| | :| |||||::||||||:||
1 AIKYKQAAIKNEIAAIKQEIAAIEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (IMMU-) IMMUNOLEX THERAPEUTICS APS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 14; 35pp; English
                                                                                                                AHEC; antiparallel; drug targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB74343 standard; peptide; 28 AA
                        novo designed AHEC peptide #5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                 05-FEB-2003; 2003WO-EP001217
                                                                                                                                                                                                                                                                                                                                                                                                           05-FEB-2002; 2002US-0354376P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Atomic Force Microscopy; AFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Uttental LO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-679535/64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
nes 16; Conserv
                                                                                                                                                                                                                              WO2003066660-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide SAF-plC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200121646-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  UYSU-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-JUL-2001
                                                                                                                                                                                                                                                                                       14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Caterer NR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2001
                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loca
Matches
```

ઠે 셤 ö

Gарв

셤

```
The present sequence is that of self-assembling peptide fibre (SAF) SAF-pl. The invention relates to fibre-shaping (FiSh) peptides ADM41434-ADM41435 that are capable of interacting with SAFs to form protein structures. The FISh peptides allow morphological changes (branches, splits, kinks and bends) to be made to protein fibres comprising SAFs. By incorporating such morphological changes in the protein fibres, it is possible to generate a variety of (nanoscale) protein fibres, it is possible to general, including matrix, filter, network, grid and scaffold structures. We of the protein structures in the purification of biological fluids, for assembling cells for cell and tissue engineering, and in surface engineering procedures is claimed.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel fiber-shaping peptide comprising hub and several peptide monomer units, useful for producing protein structure useful in purification of biological fluids and in surface engineering procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 75; DB 8; Length 28;
Pred. No. 0.006;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8; Indels
                                                                                                                 Fibre-shaping peptide; self-assembling peptide.
                                                                                                                                                                                                            /note= "N-terminal NH3 moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 KIAALKOKIASLKOEIDALEYENDALEO 28
                                                                                     Self-assembling peptide fibre SAF-pl.
                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 30; Page 22; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB74341 standard; peptide; 28 AA
Ź
ADM41436 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54.7%;
                                                                                                                                                                                                                                                                                                                               06-SEP-2002; 2002GB-00020805
                                                                                                                                                                                                                                                                                                   08-SEP-2003; 2003WO-GB003900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
hes 20; Conservative
                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                        Ryadnov MG;
                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-248444/23.
                                                                                                                                                                                                                                                                                                                                                             (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 28 AA;
                                                                                                                                                                                                                                        WO2004022584-A1
                                                                                                                                                                                 Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                           Woolfson D,
                                                          03-JUN-2004
                                                                                                                                                                                                                                                                    18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB74341;
                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB74341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          XZEX
               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

ö

Gaps .; 0

```
New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and
                                                                                                                                                                                                                            New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.
                                                                                                                                                                                                                                                                                              The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-plA
                                                                                                                                                                                                                                                                                                                                                                                                                    Gape
                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                  Score 74; DB 4; Lengtn 20,
Pred. No. 0.0082;
--rahes 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Colyer J;
                                                                                                                                                                                     Colyer J;
                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                           28
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KIRALKWKNAHLKQEIAALEQEIAALEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pandya MJ,
                                                                                                                                                                                    Woolfson DN, Walshaw J, Pandya MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ą
                                                                                                                                                                                                                                                                              Claim 16, Page 26, 45pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB74342 standard; peptide; 28
                                                                                                                                                                                                                                                                                                                                                                                             Match 54.0%;
Local Similarity 71.4%;
hes 20; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-SEP-2000; 2000WO-GB003576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99GB-00022013
                                                                                                                18-SEP-2000; 2000WO-GB003576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Atomic Force Microscopy; AFM
                    Atomic Force Microscopy; AFM
                                                                                                                                      99GB-00022013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ۵,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Walshaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYSU-) UNIV SUSSEX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-335468/35.
                                                                                                                                                                                                           WPI; 2001-335468/35.
                                                                                                                                                              (UYSU-) UNIV SUSSEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide SAF-p1B.
Peptide SAF-plA
                                                                                                                                                                                                                                                                                                                                                                         Sequence 28 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200121646-A1.
                                                                    WO200121646-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Woolfson DN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-1999;
                                             Unidentified.
                                                                                                                                      17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAR-2001.
                                                                                           29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB74342;
                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                             Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB74342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
```

```
The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Acomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p1B
tissue engineering, or constructing nanoscale molecular sieves.
                                           Disclosure; Page 9; 45pp; English.
#X8X8888X8
```

Query Match 54.0%; Score 74; DB 4; Length 28; Best Local Similarity 71.4%; Pred. No. 0.0092; Matches 20; Conservative 0; Mismatches 8; Indels 1 KIRALKWKNAHLKOBIAALEQEIAALEG 28 ò 셤

Sequence 28 AA;

ö

0; Gaps

Search completed: April 27, 2005, 15:02:16 Job time : 123 secs

MOS FIRMINANT ROPH

ANTA LITI JOY OHIL

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

April 27, 2005, 14:54:59; Search time 23.5 Seconds (without alignments) 114.641 Million cell updates/sec Run on:

US-10-088-417A-4 137 Title: Perfect score:

1 KIRALKWKNAHLKQEIAALEQEIAALEQ Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

5694 Total number of hits satisfying chosen parameters:

283416 segs, 96216763 residues

Searched:

seq length: 0 seq length: 28 Minimum DB Maximum DB

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STRAMADIES

	Description	calpain II heavy c	ysin (EC 3	homeotic protein G	collagen alpha 1(I	unidentified low M	i-bindi	5	ס	hemocyanin chain I	flagellar core pro	transformation-sen	probable bacteriop	DNA-binding protei	glycine cleavage s	nitrogenase (EC 1.	transforming prote	flagellar core pro		ribosomal protein		ribosomal protein	ribosomal protein	н						ribosomal protein
SUMMARIES	01	839391	\$23518	E37290	165270	B35372	A33262	I38253	A53592	500495	C47689	G61002	A59325	PQ0844	PA0036	PN0467	B46236	B47689	A43405	S35970	835978	835975	S35976	I46513	JC4278	301617	JC4685	538425	T49214	T06233
	DB		~	7	7	~	~	~	~	7	~	~	~	N	~	~	N	N	N	N	~	~	~	~	٦	~	~	N	N	7
	Length	25	23	16	21	22	24	24	20	19	24	27	21	27	15	19	20	25	10	50	21	23	23	24	25	25	25	25	. 25	25
d	Query Match	26.3	23.4	22.6	22.6	21.9	21.2	21.2	20.8	20.4	20.4	20.4	19.7	19.3	19.0	19.0	19.0	19.0	18.2	18.2	18.2	18.2	18.2	18.2	•	•	18.2	٠	18.2	•
	Score	36	32	31	31	30	29	29	28.5	28	28	28	27	26.5	56	26	26	26	25	25	25	25	25	25	25	25	25	25	25	25
	Result No.		8	m	4	S	9	7	œ	0	10		12	13	14	15		17	18		20						56		28	

hypothetical prote globin II - polych hera-lactoniohulin	probable photosyst protessome endopep quinoline oxidored	L-2,4-diaminobutyr calcium-binding pr alkaline phosphata	hypothetical prote hydrogenase (EC 1. heat shock protein tubulin alpha-2 ch	tubulin alpha-1 ch long-chain-fatty-a hypothetical prote
A37476 B33420 C61590	T07533 PC2319 S20274	A44854 PC1240 S74101	T46628 S33302 B34461 B55244	A55244 S66409 A86126
000	400	000	0000	000
26 27 27	26 17 19	700 700 700	4 4 5 9	26 26 13
ппо	വവഗ	மமை	ហលហល	ഗഹമ
18.	17.5	17.	17.5 17.5 17.5 17.5	17. 16.
	22 22 23 24 24	444		23 4 4
31		36 38	6 4 4 4 9 6 11 51	4 4 4 6 4 7

## ALIGNMENTS

calgain II heavy chain - pig
calgain II heavy chain - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 08-Uhn-1994 #sequence_revision 19-Apr-1996 #text_change 09-Jul-2004
C;Accession: S39391
R;Crawford, C.; Brown, N.R.; Willis, A.C.
B;Ochem. J. 296, 135-142, 1993
A;Titles: Studies of the active site of m-calpain and the interaction with calpastatin. A;Reference number: S39391.
A;Accession: S39391
A;Accession: S39391
A;Accession: S39391
A;Accession: J-25 ccRa>
A;Residues: 1-25 ccRa>
A;Cross-references: UNIPROT:Q7M386

ö Gaps .. o Length 25; Query Match 26.3%; Score 36; DB 2; Length 25; Best Local Similarity 33.3%; Pred. No. 1.6e+02; Matches 7; Conservative 6; Mismatches 8; Indels

3 RALKWKNAHLKOEIAALEOEI 23

ò 쉽

4 RAVKYLNSEKKADYQVVDDEI 24

S23518

Stromelysin (EC 3.4.24.-) - dog (fragment)

C;Species Cania lupus familiaris (dog)

C;Species Canias lupus familiaris (dog)

C;Accession: 823518

R;Bayne, B.K.; Hutchinson, N.I.; Walakovits, L.A.; Donatelli, S.; Macnaul, K.L.; Harper, A;Title: Production, purification and characterization of canine prostromelysin.

A;Reference number: 823518; MUID:93024088; PMID:1406451

A,Molecule type: protein A,Residues: 1-23 «BAY» A,Crose-references: UNIRROT:Q9TSCS C;Superfamily: interstitial collagenase; hemopexin repeat homology; matrix metalloprotei C;Keywords: hydrolase; metalloproteinase; zinc; zymogen F;1-20/Domain: matrix metalloproteinase homology (fragment) «MMP»

ö Length 23; 23.4%; Score 32; DB 2; Length 23; larity 45.5%; Pred. No. 4.9e+02; Conservative 1; Mismatches 5; Indels Best Local Similarity
Matches 5; Conserve Query Match

ö

Gaps

6 KWKNAHLKQEI 16 ò

8 KWRKXHLTYRI 18 a

```
C; Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 05-Nov-1999
C; Accession: 18853.
R; Chen, Q.; Yang, C.Y.; Tsan, J.T.; Xia, Y.; Ragab, A.H.; Peiper, S.C.; Carroll, A.; Bae B. Exp. Med. 172, 1403-1408, 1990
J. Exp. Med. 172, 1403-1408, 1990
J. Exp. Med. 172, 1403-1408, 1990
J. Exp. Med. 172, 1382-1882, 1990
A; Title: Coding sequences of the tal-1 gene are disrupted by chromosome translocation in A; Reference number: 138253, MUID:910.37805; PMID:2230650
A; Accession: 138253
                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-24 <ZAR>
A;Cross-references: UNIPROT:P13571
C;Superfamily: hepatocyte growth factor/macrophage stimulating protein 1; kringle homolc
C;Keywords: growth factor; heparin binding; kringle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Thermus aquaticus
C;Date: 01-Dec-1995 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004
C;Accession: A55592
K;Yokoyama, K.; Akabane, Y.; Ishii, N.; Yoshida, M.
J;Biol. Chem. 269, 12248-12253, 1994
A;Title: Isolation of prokaryotic V-0V-1-ATPase from a thermophilic eubacterium Thermus
                                                                                                                                                                                   heparin-binding growth factor A light chain - rabbit (fragment)
C;Species: Orycolagus cuniculus (domestic rabbit)
C;Species: Orycolagus cuniculus (domestic rabbit)
C;Date: 2.1-Feb-1990 #sequence_revision 21-Feb-1990 #text_change 09-Jul-2004
C;Accession: A31262
R;Zarnegar, R.; Muga, S.; Enghlid, J.; Michalopoulos, G.
Biochem: Biophyse Res. Commun. 163, 1370-1376, 1989
A;Title: NH-2-terminal amino acid sequence of rabbit hepatopoietin A, a heparin-binding
A;Reference number: A33262; MUID:89392048; PMID:2528955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Homo sapiens (man)
C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        H+-exporting ATPase (EC 3.6.3.6) 24k chain - Thermus aquaticus (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: EMBL:X58621; NID:g36683; PIDN:CAA41476.1; PID:g36684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acute lymphocytic leukemia 1 protein - human (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 29; DB 2; I
Pred. No. 1.3e+03;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 29; DB 2; 1
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Scatus: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-24 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A,Gene: GDB:TALL, SCL, TCL5
A,Cross-references: GDB:120759; OMIM:187040
A,Map position: 1p32-1p32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 55.6
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
56
                                                   AALVKELAAL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RASKWPHAY 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RALKWKNAH 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 ALKWKNAHL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
4, Conserva
AALEOEIAAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 SLKYRNKHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: A53592
                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: A33262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10
17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A53592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        연
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                             8
      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unidentified low M-r protein - Yersinia pseudotuberculosis (fragment)
C;Species: Yersinia pseudotuberculosis
C;Species: Yersinia pseudotuberculosis
C;Date: 17-Aug-1990 #sequence_revision 17-Aug-1990 #text_change 09-Jul-2004
C;Accession: B15372
R;Han, O.; Miller, V.P.; Liu, H.
J; Biol. Chem. 265, 8033-8041, 1990
J; Biol. Chem. 265, 8033-8041, 1990
H;dichlorophenolindolphenol oxidoreductase activity.
H;dichlorophenolindolphenol oxidoreductase activity.
A;Reference number: A35372; MUID:90243678; PMID:2159466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cjaccession: 165270
Rjeenovese, C.; Rowe, D.; Kream, B.
Biochemistry 23, 6210-6216, 1984
A;Title: Construction of DNA sequences complementary to rat alpha-1 and alpha-2 collagen A;Title: Construction of DNA sequences complementary to rat alpha-1 and alpha-2 collagen A;Reference number: 152392; MUID:85122694; PMID:639693
A;Reference number: 15270
A;Residues preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-21 RES,
A;Residues: 1-21 RES,
A;Cross-references: UNIPROT: 063076, GB:M12200; NID:9203191; PIDN:AAA40835.1; PID:9203195
C;Superfamily: collagen alpha 2(1) chain; fibrillar collagen carboxyl-terminal homology
                           homeotic protein Gah-5 - mouse (fragment)
homeotic protein Gah-5 - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Accession: E37290; E38809
R;Singh, G.; Kaur, S.; Stock, J.L.; Jenkins, N.A.; Gilbert, D.J.; Copeland, N.G.; Potter R;Singh, G.; Kaur, S.; Stock, J.L.; Jenkins, N.A.; Gilbert, D.J.; Copeland, N.G.; Potter A;Title: Identification of 10 murine homeobox genes.
A;Reference number: A37290; MUID:92073356; PMID:1683707
A;Accession: E37290
A;Accession: E37290
A;Accession: E37290
A;Kesidues: DNA
A;Residues: L-16 <SIN>
C;Superfamily: homeobox homology
C;Superfamily: homeobox homology (fragment) <HOX>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           collagen alpha 1(I) chain - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22.6%; Score 31; DB 2; Length 21; 50.0%; Pred. No. 6.1e+02; tive 2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21.9%; Score 30; DB 2; 1 ilarity 70.0%; Pred. No. 8.7e+02; Conservative 2; Mismatches 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. Similarity 50.0%; Pred. No. 4.6e+02; 4; Conservative 3; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Residues: 1-22 <HAN>
A;Cross-references: UNIPROT:Q7M0N2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 HLKQEIAALEQE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | | | | |::|
HCKNSIAYLDEE 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
7, Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 RALKWKNA 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | :||:|:
RRMKWRNS 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,Status: preliminary
A,Molecule type: protein
A,Residues: 1-22 <HAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
```

ö

ö

Gaps

```
Figure, G.; Rasmussen, H.H.; Van Den Bulcke, M.; Van Damme, J.; Puype, M.; Gesser, B.; C. Electrophoresis 11, 528-536, 1990
A;Title: Two-dimensional gel electrophoresis, protein electroblotting and microsequencis A;Reference number: A61002; MUID:91031404; PMID:1699755
A;Accession: G61002
A;Accession: G4002
A;Molecule type: protein
A;Residues: 1-27 cBAUs
A;Note: this material corresponds to transformed epithelial amnion cell (AMA) database F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           submitted the Protein Seguence Database, July 2000
A;Description: Identification of cell wall proteins of Bacteroides fragilis to which bac
A;Reference number: A59325
A;Accession: A59325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA-binding protein AcBBP1 - Azorhizobium caulinodans (fragment)
C;Species: Azorhizobium caulinodans
C;Species: 03-May-1994 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
C;Accession: PQ0844
R;Welters, P.; Metz, B.; Felix, G.; Palme, K.; Szczyglowski, K.; de Bruijn, F.J.
Plant Physiol. 102, 1095-1107, 1993
A;Title: Interaction of a rhizobial DNA-binding protein with the promoter region of a plant procession of a plant Popolate number. PQ0844; MUID:94105338; PMID:8278541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              probable bacteriophage receptor BactA [imported] - Bacteroides fragilis (fragment) C; Species: Bacteroides fragilis C; Species: Bacteroides fragilis C; Date: 28-Jul-2000 #sequence_revision 28-Jul-2000 #text_change 09-Jul-2004 C; Accession: A59325 R; Frias-Lopez, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ή;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 27;
                                                                                                                                                                                                                                                                         Length 27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 21;
                                                                                                                                                                                                                                                                                                                           5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 26.5; DB 2;
Pred. No. 3.1e+03;
7; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 27; DB 2; I
Pred. No. 2.1e+03;
1; Mismatches 4;
                                                                                                                                                                                                                                                                       Query Match 20.4%; Score 28; DB 2; Best Local Similarity 31.2%; Pred. No. 2e+03; Matches 5; Conservative 6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-21 FRI>
A;Cross-references: UNIPROT:Q7M123
A;Experimental source: strain ATCC 51477
A;Note: putative receptor for bacteriophage B40-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 IRALKWKN-AHLKQEIAALEQEI 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 MÄKLVGRNFARLRÖEKGLTQEDV 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Molecule type: protein
A;Residues: 1-27 «WEL»
A;Cross-references: UNIPROT:Q7M1A8
A;Experimental source: strain ORS571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 30.4%;
Matches 7; Conservative 7
                                                                                                                                                                                                                                                                                                                                                                                8 KNAHLKQEIAALEQEI 23
                                                                                                                                                                                                                                                                                                                                                                                                                    6 KLAYINPDLLALEETL 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ||| |: ||
EPAALHDEMLAL 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EIAALEQEIAAL 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Accession: PQ0844
           C; Accession: G61002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 14
PA0036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
C47689
flagallar core protein, 34K - Treponema hyodysenteriae (fragment)
C;Species: Treponema hyodysenteriae
C;Species: Treponema hyodysenteriae
C;Date: 19-Dec-1933 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: C47689
R;Koopman, M.B.; Basats, E.; van Vorstenbosch, C.J.; van der Zeijst, B.A.; Kusters, J.G.
J. Gen. Microbiol: 138, 2697-2706, 1992
A;Title: The periplasmic flagella of Serpulina (Treponema) hyodysenteriae are composed c
A;Reference number: A47689; MUID:93139764; PMID:1487733
A;Contents: C5, Treponema
A;Accession: C47689
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-24 <KOO>
A;Cross-references: UNIPROT:Q7M132
A;Note: sequence extracted from NCBI backbone (NCBIP:123402)
                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
$00495
hemocyanin chain III - Japanese spiny lobster (fragment)
C;Species: Panulirus japonicus (Japanese spiny lobster)
C;Species: Panulirus japonicus (Japanese spiny lobster)
C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004
C;Accession: $00495
R;Makino, N.; Kimura, S.
Eur. J. Biochem. 173, 423-430, 1988
A;Atiele: Subunits of Panulirus japonicus hemocyanin. 1. Isolation and properties.
A;Recence number: $00495; MUID:88196131; PMID:3360019
A;Accession: $00495
A;Molecule type: protein
A;Residues: 1-19 cAMA.
A;Cross-references: UNIPROT:P82313
C;Superfamily: hemocyanin
C;Keywords: copper; hemolymph; hexamer; oxygen carrier
                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G61002
transformation-sensitive protein IEF-3613 - human (fragments)
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 17-Mar-1999
                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                        3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                Query Match 20.8%; Score 28.5; DB 2; Length 20; Best Local Similarity 52.6%; Pred. No. 1.2e+03; Matches 10; Conservative 1; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 20.4%; Score 28; DB 2; Length 19; Best Local Similarity, 62.5%; Pred. No. 1.4e+03; Matches 5; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 28; DB 2; Length 24; Pred. No. 1.7e+03; 3; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3; Mismatches
                                                                                                                                                                                                                                                                                                                           5 AILSOEV---EAELOALLO 20
                                                                                                                                                                                                                                                                         10 AHLKQEIAALEQEIAALEQ 28
                              A;Molecule type: protein
A;Residues: 1.20 < YOK>
A;Cross-references: UNIPROT:Q7M196
C;Keywords: hydrolase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 45.5*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ||::| |:
14 RTLKFRNVDLR 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 RALKWINAHLK 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9 NAHLKQEI 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | | | | : | : |
7 NAHKQQDI 14
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

```
glycine cleavage system protein H1 and H2 - Arabidopsis thaliana (fragment)
C; Species: Arabidopsis thaliana (mouse-ear cress)
C; Date: 30-Jun-1992 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C; Accession: PA0036
R; Kamo, M.; Kawakami, Tc; Miyatake, N.; Tsugita, A.
submitted to JIPID, July 1994
A; Reference number: Pa0001
A; Reference number: PA0001
A; Reference number: PA0001
A; Residues: 1-15 < KAm>
A; Experimental source: stem
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                               Score 26; DB 2; Length 15;
Pred. No. 2e+03;
                                                                                                                                                                                                                                                                                                                                                                                               4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                    19.0%;
                                                                                                                                                                                                                                                                                                                                                    Query Match 19.0
Best Local Similarity 40.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 IRALKWKNAH 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
```

: ||: | | 4 LEGLKYANCH 13

d

RESULT 15

C.Species: Azotobacter chrococcum
C.Species: Azotobacter chrococcum
C.Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C.Accession: N00467
R.Jones, R.; Woodley, P.; Birkmann-Zinoni, A.; Robson, R.L.
Gene 123, 145-146, 1993
A.Title: The nifH gene encoding the Pe protein Component of the molybdenum nitrogenase falancesion: N00467
A.Molecule type: DNA
A.Molecule A;Gene: nifD C;Superfamily: dinitrogenase alpha chain; nitrogenase vanadium-iron protein alpha chain C;Keywords: ATP; nitrogen fixation; oxidoreductase nitrogenase (EC 1.18.6.1) molybdenum-iron protein alpha chain - Azotobacter chroococcum

.0; Gaps Ouery Match
Best Local Similarity 36.4%; Pred. No. 2.5e+03;
Matches 4; Conservative 5; Mismatches 2; Indels

ö

13 KQEIAALEQEI 23 ::|: :| ||: 6 REEVESLIQEV 16 g

ð

Search completed: April 27, 2005, 15:07:13 Job time : 29.5 secs

5.1.6 Compugen Ltd. GenCore version Copyright (c) 1993 - 2005

OM protein - protein search, using sw model

April 27, 2005, 14:46:25 ; Search time 112 Seconds (without alignments) 128.020 Million cell updates/sec Run on:

US-10-088-417A-4 137 Title: Perfect score:

1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1612378 segs, 512079187 residues Searched:

23310 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 28

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

		Description	Q7m386 sus scrofa			-	Q9t2s3 solanum tub	Q9qw74 mus sp. hom	Q63076 rattus norv			Q9in95 human immun	Q6v4k8 streptococc	Q50038 mycobacteri		_	Q6bdll tricholoma		m	Q9ucj6 homo sapien	P33177 anabaena sp	Q7m132 treponema h		Q8t3i7 drosophila	-	Q7m123 bacteroides		Q94xd3 pteroxanium	Q9ajq7 vibrio fisc	Q9r1m2 rattus norv	-	Q7mla8 azorhizobiu	Q9qw45 rattus sp.
SOUTHWIES			27M386	Q661K4	29RP49	270хн6	29T2S3	Q9QW74	<b>D</b> 63076	29но02	27MON2	29IN95	Q6V4K8	050038	26V106	HPTA_RABIT	Q6BD <u>L</u> 1	Q7M196	HCY3 PANJA	Q9UCJe	NIFD ANASL	27M132	LYT1_HOGCA	1317	Q9BDG4	Q7M123	044710	294XD3	29AJQ7	29R1M2	29NJR1	27M1A8	29QW45
		គ :	0	ĕ	9	õ	09	8	063	160	0	69	90	050	9	HP	390	Ś	E	9	N	Ś	Z	087	9	ó	044	ô	60	160	6	ó	8
		8	~	7	~	7	~	~	~	7	7	7	~	~	~	-	~	~	-	~		~	-	~	7	~	~	~	~	~	~	~	0
		Match Length	25	27	24	25	56	16	21	22	22	28	28	13	23	24	56	20	19	21	23	24	25	27	19	21	22	23	23	24	56	27	13
*	Query	Match	26.3	24.8	24.1	23.4	23.4	22.6	22.6	22.6	21.9	21.9	21.5	21.2	21.2	21.2	21.2	20.8	20.4	20.4	20.4	20.4	20.4	20.1	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.3	19.0
		Score	36	34	33	32	32	31	31	31	30	30	29.5	29	59	53	53	28.5	28	28	28	28	28	27.5	27	27	27	27	27	27	27	26.5	56
	Result	No.	1	7	m	4	ហ	9	7	80	o	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31

P82665 bos taurus Q7mlxO arabidopsis Q9qx44 mus spretus Q9qx54 mus spretus Q9qx5 mus musculu Q43964 azotobacter Q9twn5 theileria s Q71z13 gallus gall Q9ucs1 homo sapien Q6qmw3 anthopleura Q6qmw4 anthopleura Q6qmx4 anthopleura Q97552 lactobacill P80158 treponema h Q90y87 ictalurus p
P82665 Q7M1X0 Q9QZX4 Q9QZX4 Q9QZX5 Q41964 Q9TWN5 Q9TC31 Q9CNW3 Q9CNW4 Q6QNW4 Q6QNW4 Q6QNW4 Q9CSS2 RLA1_IREHY
аийиииииииичч
2 2 4 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
00000000000000000000000000000000000000
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

ALIGNMENTS

RESULT 1

ö

27 AA. PRT; PRELIMINARY; Q661K4 Q661K4; RESULT 2

25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein.
ORPNames=860417;
Borrelia garinii PBi.
Bacteria; Spirochaetes; Spirochaetales; Spirochaetacese; Borrelia.

Glockner G., Lehmann R., Romualdi A., Pradella S., Schulte-Spechtel U., Wilske B., Suehnel J., Platzer M.; "Comparative analysis of the Borrelia garinii genome."; Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. EMBL; CP000013; AAU07267.1; -.. Hypothetical protein. SEQUENCE 27 AA; 3278 MW; F2F1EE4EDE3D9083 CRC64; SEQUENCE FROM N.A. STRAIN=PBi;

24.8%; Score 34; DB 2; Length 27;

Query Match

Gaps

ö

Q9RP49; Q9RP49;

RESULT 3 Q9RP49

```
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
lamiids; Solanales; Solanaceae; Solanum.
NCBI_TaxID=4113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=92073356; PubMed=1683707;
MEDLINE=92073356; PubMed=1683707;
MEDLINE=92073356; PubMed=1683707;
Singh G., Kaur S., Stock J.L., Jenkins N.A., Gilbert D.J.,
Copeland N.G., Potter S.S.;
"Identification of 10 murine homeobox genes.";
"Identification of 10 murine homeobox genes.";
Proc. Natl. Acad. Sci. U.S.A. 88:10706-10710(1991).
-1- SUBCELLULAR LOCATION: Nuclear (By similarity).
GO; GO:000534; C:nucleus; IEA.
GO; GO:0005350; P:regulation of transcription, DNA-dependent; IEA.
InterPro; IPR001356; Homeobox.
InterPro; IPR001057; Homeobox.
InterPro; DNA-dependent_like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10095;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE.

MEDLINE=94198758; PubMed=7764624;

Braun H.P., Kruft V., Schmitz U.K.;

Planta 193:99-106(1994).

MEROPS; M16.003; --

GO, GO:0004222; F:metalloendopeptidase activity; IEA.

GO; GO:0006121; F:ubtquinol-cytcchrome-c reductase activity; IEA.

GO; GO:0006508; P:proteolysis and peptidolysis; IEA.

InterPro; IPRO01431; Insulinase like.

Peta; PF00675; Peptidase M16; C92C5787C8F12AC8 CRC64;
                                                                                                                                                                                                                                                                                                  01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 25, Last annotation update)
Cytochrome-C reductase 55 kDa subunit (EC 1.10.2.2) (Fragment).
Solanum tuberosum (Potato).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 32; DB 2; Length 20;
Pred, No. 3.96+03;
........heg 2; Indels
Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QQQW14;
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Homeobox GSH-5 (Fragment).
  4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16 AA.
                                                                                                                                                                                                                                                 26 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Mismatches
  3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prodom; PD00010; Homeobox; 1.
PROSITE; PS50071; HOMEOBOX; 2; 1.
DNA-binding; Homeobox; Nuclear protein.
NON TER 1 16 16
                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 63...
7; Conservative
                                                         1 KIRALKWKNAHLK 13
                                                                                         PRELIMINARY;
     6; Conservative
                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13 KOEIAALEQEI 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 KRPIRALEBEI 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q9QW74 .
                                                                                                                                                                                                                                                    Q9T2S3
        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
                                                                                                                                                                                                   RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                          셤
                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=mc2155;
MEDLINE=20011333; PubMed=10542168;
MEDLINE=20011333; PubMed=10542168;
Melanger A.E., Hatfull G.F.;
"Exponential-phase glycogen recycling is essential for growth of Mycobacterium smegmatis.";
Myco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN=WB C6;
Morrison H.G., McArthur A.G., Adam R.D., Aley S.B., Gillin F.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mycobacterium smegmatis.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Mycobacteriaceae; Mycobacterium.
NCBI_TaxID=1772;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GIP_14_5818_5741.
61afdia_lamblia_Arcc 50803.
6ukaryota; Diplomonadida; Hexamitidae; Giardiinae; Giardia.
ivGBI_TaxID=184922;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL, AACBOL000066; EAA39724.1; -.
GO, GO:0005840; C:ribosome; IEA.
GO, GO:000375; F:structural constituent of ribosome; IEA.
GO; GO:0006412; P:protein biosynthesis; IEA.
InterPro, IRRO7835; Ribosomal L41.
Pfam; PF05162; Ribosomal L41; I.
SEQUENCE 25 AA; 3267 Ww; 9AD629C253733C4E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 33; DB 2; Length 44;
Pred. No. 2.60+03;
2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Olsen G.J., Sogin M.L.;
"Draft sequence of the Giardia lamblia genome.";
"braft sequence of the Giardia lamblia genome.";
submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry w
              Pred. No. 2.2e+03;
2; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                  01-WAY-2000 (TrEMBLrel. 13, Last sequence update) 01-WAY-2000 (TrEMBLrel. 13, Last annotation update) Putative glycogen phosphorylase GlgP (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 32; DB 2; 1 Pred. No. 3.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25 AA
                                                                                                                                                                                                                                                                                          24 AA
                                                                                                                                                                                                                                                                                                                                           01-MAY-2000 (TrEMBLrel. 13, Created) 01-MAY-2000 (TrEMBLrel. 13, Last sequ 01-MAY-2000 (TrEMBLrel. 13, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                          PRT;
              Best Local Similarity 52.9%; Pr
Matches 9; Conservative 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23.4%;
46.2%;
                                                                                            1 KIRALKWKNAHLKOEIA 17
                                                                                                                                 || || || || : | ||:
KILALKKKNLNYKINIS 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 24.1%;
Best Local Similarity 54.5%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAR-2004 (TrEMBLrel. 26, 01-MAR-2004 (TrEMBLrel. 26, 01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      || : :||||:
12 HLPERLAALER 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 HLKQEIAALEQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=glgP;
```

Q7QXH6 Q7QXH6;

RESULT 4 Q7QXH

g

ઠે

ó

Gaps

; 0

```
Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ||| :|:|||
6 AALVKELAAL 15
                                                                                                                                                                                                                                                                                              14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gag protein (Fragment)
                                                                                                                                                                                                                                                    1 KIRALKWKN 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 AALEQEIAAL
                                                                                                                                                                                                                                                                             ::| | || QLRLLLWKN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [2]
SEQUENCE FROM N.A.
Mokili J.L.K.;
                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=11676;
                                                                                         22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=633;
                                                                 ATP-binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-2000
01-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                           NON TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q91N95
Q91N95;
                                                                                                                                                                                                                                                                                                                                                                                                            Q7M0N2
                                                                                                                                                                                    Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      091N95
    STABRES
                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                           음
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-Fetal calvaria;
MEDLINE-85122694; PubMed-6395893;
Genovee C., Rowe D., Kream B.;
Genovese C., Rowe D., Kream B.;
Construction of DNA sequences complementary to rat alpha 1 and alpha 2 collagen mRNA and their use in studying the regulation of type I collagen synthesis by 1,25-dihydroxyvitamin D.";
Biochemistry 23:6210-6216(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PIR; I65270; I65270.
GO; GO:0005581; C:collagen; IEA.
GO; GO:0005201; F:extracellular matrix structural constituent; IEA.
InterPro; IPR000885; Pib_collagen_C.
Pfam; PF01410; COLFI; 1.
ProDom; PD002078; Fib_collagen_C; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                          Score 31; DB 2; Length 16; Pred. No. 3.1e+03; 3; Mismatches 1; Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 31; DB 2; Length 21; Pred. No. 4.2e+03; 2; Mismatches 4; Indels
                                                                                      1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
POREGH-OGSCUETLEMEZ M., Langmann T., Schmitz G.;
POREGH-OGSCUETLEMEZ M., Langmann T., Schmitz G.;
  AEC306578EE24361 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B86A6ECCEEE46D60 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-2001 (TrEMBLrel. 16, Last sequence update) 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) ATP-binding cassette transporter-1 (Fragment).
                                                                                                                                                                                                                                                                                                                                        01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
                                                                                                                                                                                                                                                                                              21 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Created)
                                                                                                                                                                                                                                                                                                                                                                                                          Alpha-2 type I collagen (Fragment).
Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                              PRT;
                                              22.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 21
21 AA; 2358 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22.6%;
ilarity 50.0%;
Conservative
16 AA; 2178 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; M12200; AAA40835.1; -.
PIR; I65270; I65270.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-2001 (TrEMBLrel. 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. Porsch-Oezcueruemez M.K.;
                                                                                         4; Conservative
                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 HLKOEIAALEQE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HCKNSIAYLDEE 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                      (TrEMBLrel.
                                                                                                                                   3 RALKWKNA 10
                                                                                                                                                                               8 RRMKWRNS 15
                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                      01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=ABC-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NON_TER
SEQUENCE
  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9H002
Q9H002;
                                                                                                                                                                                                                                                                                              963076
                                                                                    Matches
                                                                                                                                                                                                                                               RESULT 7
Q63076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAR REPRESENTATION OF THE PROPERTY OF THE PROP
```

```
CDP-
                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Han O., Miller V.P., Liu H.; "Mechanistic studies of the biosynthesis of 3,6-dideoxyhexoses in "Mechanistic studies of the biosynthesis of 3,6-dideoxyhexoses in Yersinia pseudotuberculosis. Purification and characterization of 6-deoxy-delta (3,4) -guicoseen reductase based on its NADH:dichlorophenolindolphenol oxidoreductase activity."; J. Biol. Chem. 265:8033-8041(1990).
NBN: B35372; B35372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Unidentified low M-r protein (Fragment).
Yersinia pseudotuberculosis.
Bacteria, Proteobacteria, Gammaproteobacteria, Enterobacteriales,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
MEDILIES-92560-287; PubMed=10331444; DOI=10.1089/088922299310953;
MEDILIES-92560-287; PubMed=10331444; DOI=10.1089/088922299310953;
MCDILI J.L., Wade C.M., Burns S.M., Cutting W.A., Bopopi J.M.,
Green S.D., Peutherer J.F., Simmonds P.;
"Genetic heterogeneity of HIV type 1 subtypes in Kimpese, rural
Democratic Republic of Congo.";
AIDS Res. Hum. Retroviruses 15:655-664(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 22;
                                                                                                                                                                       Length 22;
                                                                                                                  6183559EA0C22B53 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22 AA; 2192 MW; 3E88CD8AAC8680BB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TrEMBLrel. 15, Created)
(TrEMBLrel. 15, Last sequence update)
(TrEMBLrel. 22, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus
                                                                                                                                                                    22.6%; Score 31; DB 2; I 55.6%; Pred. No. 4.4e+03; iive 2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 30; DB 2; I
Pred. No. 5.9e+03;
2; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
EMBL; AJ252277; CAC21428.1; -. GO; GO:0005524; F:ATP binding; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=90243678; PubMed=2159466;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21.9%;
70.0%;
                                                                                                               SEQUENCE 22 AA; 2831 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 70.vv,
A Conservative
                                                                                                                                                                                                                            5; Conservative
```

```
21.2%;
75.0%;
                                             21.2%;
                                             Query Match
Best Local Similarity 45.5
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                  21
                                                                                                                                                                                                                         3 HVQQEYLGVEQ 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disulfide bond(s).
                                                                                                                                                           11 HLKQEIAALEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 AALEQEIA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 AALEQDMA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
nes 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [1]
SEQUENCE FROM N.A.
TISSUE=Lung;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hepatocytes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HPTA RABIT
P13571;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                     Q6V106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HPTA_RABIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-NS696;
PubMed-14688117; DOI=10.1128/IAI.72.1.364-370.2004;
McKay F.C., McArthur J.D., Sanderson-Smith M.L., Gardam S.,
Currie B.U., Sriprakash K.S., Fagan P.K., Towers R.J., Batzloff M.R.,
Chatwal G.S., Ranson M., Walker M.J.;
Chatwal G.S., Ranson M., Walker M.J.;
"Plasminogen binding by group A streptococcal isolates from a region of hyperendemicity for streptococcal skin infection and a high incidence of invasive infection.";
Infect. Immun. 72:364-370(2004).
EMBL:
EMBL: AY351858; AAQ64528.1; -.
                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mycobacterium leprae.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Mycobacteriaceae; Mycobacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 29.5; DB 2; Length 28;
Pred. No. 8.8e+03;
4; Mismatches 6; Indels
                                                                                                                                      Score 30; DB 2; Lengtn 20;
Pred. No. 7.66+03;
Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases. EMBL; AF144854; AAF69080.1; -. NON_TER 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptococcus pyogenes.
Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robison K.;
Submitted (SEP-1994) to the EMBL/GenBank/DDBJ databases.
EMBL; U15182; AAA62970.1; -.
SEQUENCE 13 AA; 1589 MW; C7CCD7E47D025B06 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Smith D.R.;
Submitted (APR-1995) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28 AA; 3463 MW; 013B1C94B01B96ED CRC64;
                                                                                                       28 AA; 3322 MW; 76748DCB3296BAA9 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G50038;
0.1NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1996 (TrEMBLrel. 01, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 WKNAHLKOEIAALEOEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 38.1%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                            4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         M protein (Fragment)
                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                      7 WKNAHL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                    ||::||
2 WKDSHL 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=1314;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=1769;
                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q6V4K8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        050038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6V4K8
                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
0604K8
AC Q604K
AC Q604K
DT O5-JU
DT O
                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             050038
                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PUT SERVICE SE
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10096;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zarnegar R., Muga S., Enghild J., Michalopoulos G., Zarnegar R., Muga S., Enghild J., Michalopoulos G., Inhabet hepatopoietin A, a "NH2-terminal amino acid sequence of rabbit hepatopoietin A, a hepatin-binding polypeptide growth factor for hepatocytes."; Biochem. Biophys. Res. Commun. 163:1370-1376 (1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oryctolagus cuniculus (Rabbit).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Lagomorpha, Leporidae, Oryctolagus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -!- SUBUNIT: Heterodimer of an heavy and a light chain linked by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ·
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21.2%; Score 29; DB 1; Length 24; 44.4%; Pred. No. 8.7e+03; ive 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PIR; A33262; A33262.
Direct protein sequencing; Growth factor; Heparin-binding
Score 29; DB 2; December 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cabrera-Lugue J.M., Prieto-Alamo M.J., Pueyo C.;
Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
EMBL, AY355145; AAQ55831.1; -.
NON TER 23 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23 AA; 2852 MW; F8D0C3F6975C5900 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24 AA; 2768 MW; E78BBF9B807262FE CRC64;
                                                                                                                                                                                                                                                                                                                                 06/106;
05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Heme oxygenase 1 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 29; DB 2; Le:
Pred. No. 8.3e+03;
2; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JAN-1990 (Rel. 13, Created)
01-JAN-1990 (Rel. 13, Last sequence update)
05-JUL-2004 (Rel. 44, Lest annotation update)
Heptapoietin A light chain (HPTA) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24 AA.
                                                                                                                                                                                                                                                                                                              23 AA
                                                                3; Mismatches
                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=89392048; PubMed=2528955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus spretus (Western wild mouse).
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PROUNTE FROM N.A.

Murata H.;

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                               GEBLI;
25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
45-OCT-2004 (TrEMBLrel. 28, Last annotation update)
47-CT-2004 (TrEMBLrel.)
47-CT-2004 (TrEMBLrel.)
48-CT-2004 (TrEMBLrel.)
48-CT-2004 (TrEMBLrel.)
58-CT-2004 (TrEMBLr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 21.2%; Score 29; DB 2; Length 26; Best Local Similarity 80.0%; Pred. No. 9.4e+03; Matches 4; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                 26 AA.
                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
4 ALKWKNAHL 12
:||::||:
16 SLKYRNKHI 24
                                                                                                                                                                                                                                                                                                                                                                                 Q6BDL1
                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                            셤
```

Search completed: April 27, 2005, 15:06:18 Job time : 114 secs

:||||| 7 IKWKN 11 S LKWKON 9

셤 ò

AGO FIRMINA ISTA

AMA LITI TONG SHILL

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

April 27, 2005, 14:58:17 ; Search time 29.5 Seconds Run on:

(without alignments)
70.853 Million cell updates/sec

Title: Perfect score:

US-10-088-417A-4 137 1 KIRALKWKONAHLKQEIAALEQEIAALEQ 28 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

513545 segs, 74649064 residues Searched:

228236 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 ... Maximum DB seq length: 28 ...

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

/cgn2_6/prodata/1/taa/5A_COMB.pep:*
/cgn2_6/prodata/1/iaa/5B_COMB.pep:*
/cgn2_6/prodata/1/iaa/6A_COMB.pep:*
/cgn2_6/prodata/1/iaa/6B_COMB.pep:*
/cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:*
/cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:* Issued Patents AA:* 4. ru .a

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Score		* Query Match	Length	DB	ID	Description
47 34.3			21	4	US-09-834-759-534	Seguence 534. App
m	2.8		56	4	-09-403-861A-	8,
45 32.8	12.8		27	~	US-07-684-965-9	6
Э	12.8		27	m	US-09-252-658-9	Sequence 9, Appli
e	12.8		28	ო	US-08-486-099-84	84,
e	12.8		28	ო	US-08-360-107A-94	94,
45 32.8	12.8		28	ო	US-08-484-223B-84	84,
45 32.8	12.8		28	m	US-08-919-597-84	84,
m	m		8	ო	US-08-475-668A-84	84,
32.8	m	.,	8	m	US-08-485-551A-84	84,
32.8	m	CV	œ	ო	US-08-471-913A-84	84,
œ	œ	~	œ	ო	US-08-485-264A-84	84,
32.8 2	8	Ñ	8	ო	US-08-474-349A-84	84,
32.8 2	8	7	æ	4	US-08-255-208A-20	20,
32.8	æ	~	æ	4		84,
32.8	m	~	œ	4	US-09-914-259-1	۲,
32.8	60	~1	æ	4	US-08-485-546A-84	
32.8	6 0	C	ø	4	19-350-841A-1	12
80	2.8	••	28	4	-09-350-841A-156	1566,
32.8	2.8	••	28	マ	US-09-350-841A-1573	Sequence 1573, Ap
32.8	2.8	•••	8	4	US-08-487-266A-84	84, Ag
32.1	2.1	•	24	4	US-09-491-614B-29	29,
44 32.1	12.1		28	-	US-08-182-175A-1	7,
44 32.1	12.1		28	'n	PCT-US92-06412-1	Sequence 1, Appli
43 31.4	11.4		24	~	-08-491-	12
42 30.7	10.7		24	~	US-08-491-527A-11	11,

37, 37,	Sequence 8, Appli Sequence 98, Appl Sequence 9, Appli	N N N	3,	Sequence 70, Appl Sequence 3, Appli Sequence 8, Appli	equence 8, A equence 53, equence 7, A	Sequence 10, Appl
US-08-690-011A-37 US-09-299-495F-37	US-08-491-527A-8 US-09-248-588-98 US-08-491-527A-9	US-08-690-011A-2 US-09-299-495F-2 US-08-690-011A-3	US-09-299-495F-3 US-08-182-175A-3 US-08-474-633A-70	US-08-823-771-70 PCT-US92-06412-3 US-07-684-965-8	-09-252- -07-977- -08-491-	US-08-491-527A-10
99	404	9 9 9		28 4 28 5 27 2		
30.7 2	29.2 28.5 27.7					26.3
4. 4. 2. 2.		8 8 8 6 6 6	@ @ @	38 37 37	37 36 36	36
28	33 33 35 35		36 37 38	98 94 10 10	4 4 4 2 6 4	45

ALIGNMENTS

Sequence 534, Application US/09834759
; Batent No. 6680197
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Heapler, William T.
; APPLICANT: Heapler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 21012.1.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILIAG DATE: 2001-04-13
; NUMBER OF SEQ ID NOSS: 547
; SOFTWARE: FREUSE for Windows Version 3.0
; TRANSMOUL C.

TYPE: PRT CORGANISM: Homo sapiens US-09-834-759-534

Length 21; 5; Indels Score 47; DB 4; Pred. No. 5.8; 3; Mismatches Query Match
Best Local Similarity 57.9%;
Matches 11; Conservative 3

ö

Gaps

; 0

1 ||:||| |: ||| |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: || |: 9 NAHLKOELAALEQELAALE 27 ઠે 셤

Sequence 8, Application US/09403861A
; Patent No. 6833348
; GENERAL INFORMATION:
APPLICANT: RICCARDI, Carlo
TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
DEATH PATHWAYS RESULT 2 US-09-403-861A-8

NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSES:
STREET: 624 Winth Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20001

Sequence 25, Appl

4 US-09-491-614B-25

25

30.7

42

27

Indels

```
Sequence 9, Application US/09252658
; Sequence 9, Application US/09252658
; Patent No. 6251667
; GENERAL INFORMATION:
    APPLICANT: HABENER, JOEL F.
    APPLICANT: HORFILER, JAMES P.
    TITLE OF INVENTION: A CAMP-RESPONSIVE TRANSCRIPTIONAL
    TITLE OF INVENTION: BUHANCER BINDING PROTEIN
    NUMBER OF SEQUENCES: 1
    CORRESPONDENCE ADDRESS:
    ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
    STREET: 1100 NEW YORK AVE., NW, STE. 600
    CITY: WASHINGTON
    STRATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32.8%; Score 45; DB 3; Length 27; 42.9%; Pred. No. 14; 7; Indels tive 5; Mismatches 7; Indels
                                                                                                                                                            Length 27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BY SYSTEM: PC-DOS/MN-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/252,658
FILING DATE: HERWITH
CLASSIFICATION:
                                                                                                                                                            Score 45; DB 2;
Pred. No. 14;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/684,965
FILING DATE: 22-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US89/05234
FILING DATE: 20-NOV-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/272,980
FILING DATE: 18-NOV-1988
ATTORNEY/AGENT INFORMATION:
NAME: Clinbala, Michale A
REGISTRATION NUMBER: 33,851
REGISTRATION NUMBER: 0609.1990002
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                                                                                                                                                                                                    1 KIRALKWKNAHLKOFIAALEO 21
                                                                                                                                                                                                                                                                                                 4 KVEELLSKNYHLENEVARLKK 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (202)371-2540
INFORMATION FOR SEQ ID NO: 9:
                                                                                                                                                                 Query Match
Best Local Similarity 42.9%;
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (202)371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 32.8<sup>†</sup>
Best Local Similarity 42.9<sup>†</sup>
Matches 9† Conservative
27 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                 TOPOLOGY: linear

MOLECULE TYPE: peptide

US-07-684-965-9
                  TYPE: AMINO ACID
STRANDEDNESS: both
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: bo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
LENGTH:
                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 9, Application US/07684965
; Sequence 9, Application US/07684965
; Patent No. 5919649
; GENERAL INPORMATION:
APPLICANT: HABENER, JOEL F.
APPLICANT: HORFILER, JAMES P.
TITLE OF INVENTION: A-CAMP RESPONSIVE TRANSCRÍPTIONAL
TITLE OF INVENTION: B-CAMP RESPONSIVE TRANSCRÍPTIONAL
TITLE OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
STREET: 1225 Connecticut Avenue, N.W., Suite 300
CITY: Washington
STATE: DC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 32.8%; Score 45; DB 4; Length 26; Best Local Similarity 42.9%; Pred. No. 14; Matches 9; Conservative 5; Mismatches 7; Indels
               MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/403,861A FILING DATE: 11-Feb-2000 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATE:
APPLICATION NUMBER: US/07/684,965
FILING DATE: 19910522
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CIMBAIA, Michele A
REGISTRATION NUMBER: 33,851
REFERENCE/DOCKET NUMBER: 0609.2470004
TELLECHMONICATION INFORMATION:
TELLECHMONICATION INFORMATION:
TELLECHMONICATION INFORMATION:
TELLEPAK: (202)833-7533
                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/EP98/02490
FILING DATE: 27-APR-1998
APPLICATION NUMBER: EP 97107033.9
FILING DATE: 28-APR-1997
ATTORNEY/AGENT INPORMATION:
NAME: YUN, Allen C.
REGISTATION NUMBER: RICCARDI=1
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-403-861A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 KVEELLSKNYHLENEVARLKK 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
ZIP: 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JS-07-684-965-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

ö

Gaps

셤

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Bologuesi, Dani P.
APPLICANT: Bloguesi, Thomas J.
APPLICANT: Mild, Carl T.
APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Langlois, Alphonse J.
TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF
TITLE OF INVENTION: TRANSMISSION
TITLE OF INVENTION: TRANSMISSION
TITLE OF INVENTION: TRANSMISSION
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
                            OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV TRANSMISSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
       METHODS AND COMPOSITIONS FOR INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indele
                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 10036-271
ZIP: 10036-271
COMPUTER REDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/360,107A
FILING DATE: 20-DEC-1994
FILING DATE: 20-DEC-1994
CLASSIFICATION: 435
ATOMES/AGENT INFORMATION:
NAME: COLUZZI, LANIRA A.
REGISTRATION NUMBER: 30,742
REGISTRATION NUMBER: 30,742
REGISTRATION NUMBER: 09-999
TELEFRA: (212) 869-9741/8864
TELEFRA: (212) 869-9741/8864
TELEFAX: (212) 869-9741/8864
TELEFAX: CAL14 PENNIE
FINFORMATION FOR SEQ ID NO: 94:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 32.8%; Score 45; DB 3;
Best Local Similarity 42.9%; Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5; Mismatches
TITLE OF INVENTION: METHODS AND COMPOSITY
TITLE OF INVENTION: OF MEMBRANE FUSION-FUTURE OF INVENTION: TRANSMISSION
NUMBER OF SEQUENCES: 149
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Pennie & Edmonds LLP STREET: 1155 Avenue of the Americas CITY: New York STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 84, Application US/08484223B
Patent No. 6020459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KIRALKWKNAHLKOEIAALEO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPAR; 2711
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
COMPUTER: ISM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-360-107A-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-484-223B-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                           APPLICANT: Matthews, Thomas J.
APPLICANT: Matthews, Thomas J.
APPLICANT: Wild, Carl T.
APPLICANT: Wild, Carl T.
APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Langlois, Alphonse J.
TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF
TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITISS ITILE OF INVENTION: B VIRUS TRANSMISSION
NUMBER OF SEQUENCES: 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 45; DB 3; Length 28; Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,099

FILING DATE: 07-10/10-130

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: CONTAZ; Laura A.

REGISTRENCE/DOCKET NUMBER: 7872-031

TELEPHONE: (212) 790-9090

TELEPHONE: (212) 869-9741/8864

INFORMATION FOR SEQ ID NO: 84:

SEQUENCE CRARACTERISTICS:

LENGTH: 28 mming acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-360-107A-94
; Sequence 94, Application US/08360107A
; Patent No. 6017536
                                                                                                                        Sequence 84, Application US/08486099
Patent No. 6013263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 KVEELLSKNYHLENEVARLKK 27
       4 KVEELLSKNYHLENEVARLKK 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matthews, Thomas J. Wild, Carl T. Barney, Shawn O. Lambert, Dennis M. Petteway, Stephen R. Langlois, Alphonse J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 32.8
Best Local Similarity 42.9
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; MOLECULE TYPE: peptide US-08-486-099-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Bolognes
APPLICANT: Matthews
APPLICANT: Wild, Ca
APPLICANT: Lambert,
APPLICANT: Lambert,
APPLICANT: Lambert,
APPLICANT: Lambert,
APPLICANT: Lambert,
                                                                                                                                                                            GENERAL INFORMATION:
```

원 ઠે

84:

```
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Matthews, Thomas J.
APPLICANT: Matthews, Thomas J.
APPLICANT: Wild, Carl T.
APPLICANT: Wild, Carl T.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Alphonse J.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION
TITLE OF INVENTION: OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV
NUMBER OF SEQUENCES: 273
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 32.8%; Score 45; DB 3; Length 28; Best Local Similarity 42.9%; Pred. No. 15; Matches 9; Conservative 5; Mismatches 7; Indels
     SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,223B
FILING DATE: 07-UNN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LBURE 30,742
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 30,742
TELEPHONE: (212) 790-9090
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/919,597
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/470,896
FILING DATE: 06-UNN-1995
ATTORNEY/AGENT INFORMATION:
NAME: COLUZI, LAURA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7872-020
TELECHONE: (212) 790-9090
TELEPHONE: (212) 790-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KIRALKWKNAHLKOEIAALEO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 84, Application US/08919597
Patent No. 6054265
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                                                                                                                         TELEFAX: (212) 869-9741/8864
TELEY: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acids
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: unknown
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-484-223B-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-919-597-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Letcway, Stephen R.
ITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF MEMBRANE
TITLE OF INVENTION: TOSION-ASSOCIATED EVENTS, INCLUDING INFLUENZA VIRUS
TITLE OF INVENTION: TRANSMISSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 28;
                                                                                                                                                                                                                                                                                                      32.8%; Score 45; DB 3; Length 28; 42.9%; Pred. No. 15; 7; Indels tive 5; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,668A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: COLUZI, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7872-026
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 45;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 211
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMMIX: USA
ZIP: 10036-2711
COMPUTER READALLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 84, Application US/08475668A Patent No. 6060065
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KIRALKWKNAHLKOEIAALEO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |: | || ||: |: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |:: | |::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KIRALKWKNAHLKQEIAALEO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 84:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : 28 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
LENGTH: 28 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: unknown MOLECULE TYPE: peptide US-08-475-668A-84
                                                                                                                                                                      MOLECULE TYPE: peptide
                                                                                                                                     unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 9; Conserva
                                      TYPE: amino acid STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-475-668A-84
                                                                                                                                                                                                                          US-08-919-597-84
```

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Matthews, Thomas J.
APPLICANT: Wild, Carl T.
APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Langlois, Alphonse J.
APPLICANT: Langlois, Alphonse J.
APPLICANT: Langlois, Alphonse J.
APPLICANT: TRANSMISSION ASSOCIATED EVENTS, INCLUDING EPSTEIN-BARR VIRUS TITLE OF INVENTION: TRANSMISSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                               APPLICANT: Bolognesi, Dani P.
APPLICANT: Matthews, Thomas J.
APPLICANT: Matthews, Thomas J.
APPLICANT: Mid, Carl T.
APPLICANT: Lambert, Dennis M.
APPLICANT: Lambert, Dennis M.
APPLICANT: Langlois, Alphones J.
TITLE OF INVENTION: WETHODS FOR INHIBITION OF MEMBRANE
TITLE OF INVENTION: TRANSMISSION
NUMBER OF SEQUENCES: 211
ADDRESSEE: Pennis & Edmonds LLP
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32.8%; Score 45; DB 3; Length 28; 42.9%; Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: U.S.A.

ZIP: 10036-2711

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATURG SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,551A
FILING DATE: 07-UNN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CCALUZZ, LAURA A.
REGISTRATION NUMBER: 30,742
REGISTRATION NUMBER: 30,742
REGISTRATION NUMBER: 30,742
REGISTRATION NUMBER: 30,742
RELEEPAN: (212) 790-9090
TELEFPAN: (212) 7869-9741/8864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Mismatches
Sequence 84, Application US/08485551A
Patent No. 6068973
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 84, Application US/08471913A
Patent No. 6093794
GENERAL INFORMATION:
APPLICANT: BOLOGNESI, Dani P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matthews, Thomas J. Wild. Carl T. Barney, Shawn O. Lambert, Dennis M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (212) 869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ 1D NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 42.9
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: unknown
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                               CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 11
US-08-471-913A-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-485-551A-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

```
GENERAL INFORMATION:

Patent No. 6228983

GENERAL INFORMATION:

APPLICANT: Balognesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Matthews, Thomas J.

APPLICANT: Matthews, Carl T.

APPLICANT: Langlois, Alphonse J.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING

TITLE OF INVENTION: RESPIRATORY SYNCYTIAL VIRUS TRANSMISSION

NUMBER OF SEQUENCES: 232

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

CITY: New York

CITY: New York

CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7; Indels
CORRESPONDENCE ADDRESS:
ADDRESSER: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STRATE: New York
STRATE: 1036-271

ZIP: 10036-271

ZIP: 10036-271

COUNTRY: USA
ZIP: 10036-271

CONTRY: USA
ZIP: 10036-271

CONTRY: USA
ZIP: PatentIn Release #1.0, Version #1.30

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION NUMBER: US/08/471,913A

FILING DATE: 07-UUN-1995

CLASSIFTCATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LAUYA A.
REGISTRATION NUMBER: 30,742

REFERRAVE COLUZZI, LAUYA A.
REGISTRATION NUMBER: 30,742

REFERRAVE COLUZZI, LAUYA A.
REFERRAVE COLUZZI, LAUYA A.
REGISTRATION NUMBER: 30,742

REFERRAVE (212) 869-9741/8864

TELEFAX: 6(212) 869-9741/8864

TELEFAX: 6(212) 869-9741/8864

TELEFAX: 6(212) 869-9741/8864

TELEFAX: SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids

"VDD". = mino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IEM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,264A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 45; DB 3;
Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 42.9%;
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: unknown MOLECULE TYPE: peptide US-08-471-913A-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: New York
```

```
Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
32.8%; Score 45; DB 4; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEPTIDE INHIBITORS OF HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version WINER: PLING DATE: US/08/255,208A
FLING DATE: 07-UM-1994
FLING DATE: 07-UM-1994
CLASSIFICATION NUMBER: 30,742
REGISTRATION NUMBER: 30,742
RELEFANCE/DOCKET NUMBER: 37,742
TELEFANCE/DOCKET NUMBER: 3120
TELEFANCE (212) 790-9090
TELEFAN: (212) 790-9090
TELEFAN: (212) 790-911/0864
TELEFAN: GA11 PENNIE
INFORMATION FOR SEQ ID NO: 20:
                                                                           Score 45; DB 3;
Pred. No. 15;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Bolognesi, Dani P.
APPLICANT: Matthews, Thomas J.
APPLICANT: Wild, Carl T.
APPLICANT: Barney, Shawn O.
APPLICANT: Lambert, Dennis M.
APPLICANT: Petteway Jr., Stephen R.
TITLE OF INVENTION: SYNTHETIC PEPTIDE
TITLE OF INVENTION: TRANSMISSION
                                                                                                                                                                                                                                                                                                                           Sequence 20, Application US/08255208A Patent No. 6440656 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 84, Application US/08470896; Patent No. 6479055; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KIRALKWKNAHLKOEIAALEO 21
                                                                                                                                                                                                    7 KVEELLSKNYHLENEVARLKK 27
                                                                                                                                                                        1 KIRALKWKNAHLKQEIAALEQ 21
                                                                                Query Match 32.8%;
Best Local Similarity 42.9%;
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: peptide
              , MOLECULE TYPE: peptide US-08-474-349A-84
unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New York
: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-255-208A-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 15
US-08-470-896-84
TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                     셤
                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFURCATION:
APPLICANT: BOLOGNES; Dani P.
APPLICANT: BAICHOWS, Thomas J.
APPLICANT: Mild, Carl T.
APPLICANT: Mild, Carl T.
APPLICANT: Barney, Stephen R.
APPLICANT: Langbort, Dennis M.
APPLICANT: Langbort, Dennis R.
APPLICANT: Langbort, Dennis M.
APPLICANT: Langbort, Dennis M.
APPLICANT: Langbort, Dennis M.
APPLICANT: New York
COUNTRY: New York
STREET: 1155 Avenue of the Americas
ADDRESSEES: Pennis K. Edmonds
STREET: 1036-2711
COMPUTER: New York
COUNTRY: USA
ADDRESSEES: Pennis M.
APPLICANTION DATA: US/08/474,349A
FILING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,349A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
32.8%; Score 45; DB 3; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICALLON
FILING DATE: 07-JUN-122-
CLASSIPICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7872-024
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
CORP. 2010 19090
                                                                                                               7872-021
         CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7872-0
TELECOMMUNICATION INFORMATION:
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
US-08-474-349A-84
; Sequence 84, Application US/08474349A
; Batent No. 6333395
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KIRALKWKNAHLKQEIAALEQ 21
  07-JUN-1995
                                                                                                                                                                                                                                                                                                                  STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-485-264A-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
APPLICANT: Bolognesi, Dani P. APPLICANT: Matthews, Thomas J. APPLICANT: Langical, Albhonse J. Carl T. APPLICANT: Matthews For Sequences: 2.73

TITLE OF INVENTION: OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV TITLE OF INVENTION: THANSMISSION

TOTALE OF INVENTION: OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV TITLE OF INVENTION: OF MEMBRANE FORM.

CONRESPONDER ADMESSE: 2.73

CONFIDENT MAY Correct to Carpatible.

CONFIDENT: New York

CONFIDEN
```

Search completed: April 27, 2005, 15:19:43 Job time : 30.5 secs

g

THIS PAGE LEFT BLANK

```
April 27, 2005, 15:02:43; Search time 89.5 Seconds (without alignments) 104.113 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ggn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
| / Ggn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:
/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:
/cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:
/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                 US-10-088-417A-4
137
1 KIRALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1424015 segs, 332791073 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Published Applications AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0 Maximum DB seq length: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20:0
                                                                                                                                                                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Database :
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                    Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description		21,	22,	Sequence 19, Appl	Sequence 19, Appl	•	Sequence 59, Appl		-	Sequence 587, App	Sequence 534, App	Sequence 587, App	Sequence 534, App
	ID	US-10-360-053-23	US-10-360-053-21	US-10-360-053-22	US-10-338-083-19	US-10-611-399-19	US-10-794-751-19	US-09-259-658-59	US-09-834-759-534	US-10-007-805-534	US-10-007-805-587	US-10-076-622-534	US-10-076-622-587	US-10-124-805-534
	DB	14	14	14	14	16	11	10	σ	13	13	14	14	14
	Query Match Length DB	28	28	28	24	24	24	23	21	21	21	21	21	21
، جد	Query	59.1	43.1	39.4	37.2	37.2	37.2	36.5	34.3	34.3	34.3	34.3	34.3	34.3
	Score	81	59	54	51	51	51	20	47	47	47	47	47	47
į	Regult No.	-	8	e	4	S	9	7	80	o	10	11	12	13

Sequence 587, App	Sequence 8, Appli	'n	Sequence 90, Appl	84	84	Sequence 30, Appl	Sequence 596, App	Sequence 596, App	Sequence 37, Appl	Sequence 7, Appli	Н	ģ	Sequence 6, Appli	Sequence 2, Appli	m	7	Sequence 70, Appl	Sequence 36, Appl	1, 7	20	20,	20,	'n	40,	Seguence 56, Appl	67,	36,	Seguence 40, Appl	26,	67,	1241
US-10-124-805-587	US-10-630-926-8	US-10	US-10-370-685-90	US-10-267-682-84	US-10-267-748-84	US-09-491-614-30	US-10-076-622-596	US-10-124-805-596	US-10-059-720-37	US-09-882-774-7	US-10-210-023-111	US-09-320-907B-6	US-10-447-292-6	US-10-059-720-2	US-10-059-720-3	US-10-023-066A-70	US-10-804-678-70	US-10-059-720-36	US-10-059-720-1	US-10-338-083-20	US-10-611-399-20	US-10-794-751-20	US-10-023-066A-36	US-10-023-066A-40	US-10-023-066A-56	US-10-023-066A-67	US-10-804-678-36	US-10-804-678-40	US-10-804-678-56	US-10-804-678-67	US-10-225-567A-1341
14	16	14	15	15	15	10	14	14	14	10	14	б	15	14	14	14	16	14	14	14	16	17	14	14	14	٦	-	16	-	16	14
21	56		28		28	24	20	20	56	27	17	28	28	25	56	58	28	19	24	24	24	24	28	28	28	28	28	78	78	28	20
34.3	32.8	32.8	32.8	32.8	32.8	32.1	31.4	31.4	30.7	29.9	28.5	28.5	28.5	27.7	27.7	27.7	27.7	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	56.3	26.3	26.3	25.5
47	45	45	45	. 45	45	44	43	43	42	41	39	39	39	38	38	38	38	36	36	36	36	36	36	36	36	36	36	36	36	36	35
14	15	16	. 17	. 18	19	. 02	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

```
Sequence 23, Application US/10360053

Publication No. US20030170230A1

Publication No. US20030170230A1

Publication No. US20030170230A1

Publication No. US20030170230A1

APPLICANT: Caterer, Nigel

APPLICANT: Uttenthal, Lars O

TITLE OF INVENTION: Ramma W and Methods for Assembly and Stabilization of Antibc

TITLE OF INVENTION: Thereof

TITLE OF INVENTION: Thereof

TITLE OF INVENTION: Thereof

TITLE OF INVENTION: Use Of 20.05

CURRENT APPLICATION NUMBER: US/10/360,053

CURRENT APPLICATION NUMBER: US60/354,376

PRIOR PILING DATE: 2002-02-05

NUMBER OF SEQ ID NOS: 29

SOFTWARE PatentIN version 3.1

SEQ ID NO 23

LENGTH: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 59.1%; Score 81; DB 14; Length 28; Best Local Similarity 64.0%; Pred. No. 0.00084; Matches 16; Conservative 6; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Synthetic US-10-360-053-23
```

셤 ò

RESULT 2

4 ALKWKNAHLKOEIAALEOEIAALEO 28

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19, Application US/10611399
; Sequence 19, Application US/10611399
; Publication No. U320040170602A1
; GENERAL INFORMATION:
    APPLICANT: Desiariais, John R.
    APPLICANT: Dasiariais, John R.
    APPLICANT: Dahiyat, Bassil I.
    TITLE OF INVENTION: DOWINANT NEGATIVE PROTEINS AND METHODS THEREOF
; TITLE REFERENCE: A-71273-3
; CURRENT APPLICATION NUMBER: US/10/611,399
; CURRENT FILING DATE: 2003-07-01
; PRIOR PILING DATE: 2003-07-06
; PRIOR PILING DATE: 2003-01-06
; PRIOR PILING DATE: 2002-01-04
; PRIOR PILING DATE: 2002-04-17
; NUMBER: OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
APPLICANT: Desjarlais, John R.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Desjarlais, Bassil I.
TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
TITLE OF INVENTION: UNMER: US/10/338,083
CURRENT APPLICATION NUMBER: US/10/338,083
CURRENT FILING DATE: 2003-01-16
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR APPLICATION NUMBER: US 60/373,453
PRIOR PILING DATE: 2002-01-04
PRIOR PILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 51; DB 16; Length 24;
Pred. No. 6.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 14; Length 24; 6.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37.2%; Score 51; 55.6%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: coiled-coil motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: coiled-coil motif
US-10-338-083-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence 19, Application US/10794751; Publication No. US20050048626A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | |: |::||| |::||
| AALESEVSALESEVASLE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10 AHLKOEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | |: |::||| |:|||
| AALESEVSALESEVASLE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 37.2%;
Best Local Similarity 55.6%;
Matches 10; Conservative !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 AHLKQEIAALEQEIAALE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-794-751-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
US-10-611-399-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-611-399-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-360-053-22
; Sequence 22, Application US/10360053
; Publication No. US20030170230A1
; Bequence 22, Application No. US20030170230A1
; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Uttenthal, Lars O
APPLICANT: Uttenthal, Lars O
TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibc
; TITLE OF INVENTION: Thereof
; FILE REPRENCE: INV.0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US/0354,376
; PRIOR FILING DATE: 2003-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.1
; SSQ ID NO 22
                                                            GENERAL INFORMATION:
APPLICANT: Caterer, Nigel
APPLICANT: Uttenthal, Lars O
APPLICANTION: Pragments via Antiparallel Hetergeneous Coiled-Coil Peptide Regi
TITLE OF INVENTION: Thereof
FILE REFERENCE: IMX-0028
CURRENT APPLICATION NUMBER: US60/354,376
PRIOR APPLICATION NUMBER: US60/354,376
PRIOR PLING DATE: 2002-025
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
43.1%; Score 59; DB 14; Length 28;
Best Local Similarity 40.0%; Pred. No. 0.69;
Matches 10; Conservative 12; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ch 39.4%; Score 54; DB 14; Length 28; 1 Similarity 50.0%; Pred. No. 3.2; 12; Conservative 7; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |:::: |:|||||:::||||:::
1 AIEYEQAAIKEEIAAIKDKIAAIKE 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 ALKWKNAHLKQEIAALEQEIAALEQ 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KIRALKWKNAHLKQEIAALEQEIA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-338-083-19; Sequence 19, Application US/10338083; Publication No. US20030166559A1
                  Sequence 21, Application US/10360053
Publication No. US20030170230A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTHER INFORMATION: Synthetic US-10-360-053-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-360-053-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S:
Matches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
```

```
APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Dillon, Davin C.
APPLICANT: Micham, Jennifer L.
APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Hepler, William T.
APPLICANT: Hepler, William T.
APPLICANT: Honderson Robert A.
TITLE OF INVENTION: DIAGNOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSITIONS OF BREAST CANCER
FILE REPRERENTE: 210121.470C9
CURRENT APPLICATION NUMBER: US/09/834,759
CURRENT FILING DATE: 2001-04-13
NUMBER OF SEQ ID NOS: 547
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Ranger, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Wedvick, Thomas S.
APPLICANT: Octoberil, Patricia D.
APPLICANT: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C10
CURRENT APPLICATION NUMBER: US/10/007,805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 47; DB 13; Length 21;
Pred, No. 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 34.3%; Score 47; DB 9; Best Local Similarity 57.9%; Pred. No. 20; Matches 11; Conservative 3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 593
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 534
LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 534, Application US/10007805
Publication No. US20020150581A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
US-10-007-805-587
; Sequence 587, Application US/10007805
Sequence 534, Application US/09834759
Publication No. US20020085998A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 NAHLKOEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34.3%;
57.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34.31
Best Local Similarity 57.9<sup>3</sup>
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-759-534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , ORGANISM: Homo sapiens
US-10-007-805-534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: Compositions And Methods For Monitoring The FILE REFERENCE: colyer 4255/79245

CURRENT APPLICATION NUBER: US/09/259,658

CURRENT FILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 59

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 59

TYPF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Description of Artificial Sequence:Synthetic OTHER INFORMATION: peptide used to assay geranylgeranyl transferase; THPORMATION: activity.

US-09-259-658-59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 36.5%; Score 50; DB 10; Length 23; Best Local Similarity 56.5%; Pred. No. 8.7; Matches 13; Conservative 3; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 17; Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3; Indels
                                          APPLICANT: Intomacous, Auguin Read,
TITLE OF INVENTION: BAFF VARIANTS AND METHODS THEREOF
FILE REFERENCE: A-72175.1
CURRENT APPLICATION WUMBER: US/10/794,751
CURRENT APPLICATION WUMBER: US/10/794,751
CURRENT FILING DATE: 2004-03-05
FRIOR PRICH FILING DATE: 2003-01-06
PRIOR FILING DATE: 2003-01-06
PRIOR FILING DATE: 2003-03-07
FRIOR APPLICATION WUMBER: US 60/482,081
FRIOR APPLICATION WUMBER: US 60/482,081
FRIOR PILING DATE: 2003-06-23
FRIOR FILING DATE: 2003-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
37.2%; Score 51;
Best Local Similarity 55.6%; Pred. No.
Matches 10; Conservative 5; Mismatci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , OTHER INFORMATION: coiled-coil motif US-10-794-751-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 IRALKWKNAHLKOEIAALEGEIA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 IAQLKQKIAQLKQKNACLKOKIA 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 59, Application US/09259658
Publication No. US20030032054A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AALESEVSALESEVASLE 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10 AHLKQEIAALEQEIAALE 27
        Desjarlais, John R. Thomason, Adam Read
                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin version 3.3
SEQ ID NO 124
LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-259-658-59
```

δ 요

Gaps

Gaps

ö

US-09-834-759-534

ઠ 셤

```
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REPERENCE: 210121.470C12
CURRENT APPLICATION NUMBER: US/10/124,805
CURRENT FILING DATE: 2002-04-15
NUMBER: OF SEQ ID NOS: 627
SOFTWARE: FREESEQ for Mindows Version 4.0
SEQ ID NO 534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 587, Application US/10124805
Sequence 587, Application US/10124805
Publication No. US20030166022A1
GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER FILE REFERENCE: 21012.1.470C12
CURRENT APPLICATION NUMBER: US/10/124,805
CURRENT FILING DATE: 2002-04-15
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER FILE REFERENCE: 210.121, 470.011
CURRENT APPLICATION NUMBER: US/10/076,622
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FRRESEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                        Query Match 34.3%; Score 47; DB 14; Length 21; Best Local Similarity 57.9%; Pred. No. 20; Matches 11; Conservative 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 14; Length 21;
20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 587
LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34.3%; Score 47; 57.9%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 534, Application US/10124805
Publication No. US20030166022A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                                                                                                                                                                                         9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 57.9
Matches 11; Conservative
                                                                                                                                                                                                                                                   CRGANISM: Homo sapiens US-10-076-622-587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , ORGANISM: Homo sapiens
US-10-124-805-534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Homo sapiens
US-10-124-805-587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
US-10-124-805-587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-124-805-534
                                                                                                                                                                           SEQ ID NO 587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, Paul R.
APPLICANT: Bersing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: COMPOSITIONS OF BREAST CANCER
FILE REFERENCE: 210121.470C11
CURRENT RAPPLICATION NUMBER: US/10/076,622
CURRENT FILING DAFE: 2002-02-13
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 534
LENGTH: 21
                                                                                                                                                                                                                                                                                            APPLICANT: DUTBER, MARGARITA
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: COMPOSITIONS AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470210
CURRENT PEPLING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 593
SEQ ID NO 587
LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                34.3%; Score 47; DB 13; Length 21; 57.9%; Pred. No. 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 47; DB 14; Length 21;
Pred. No. 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
US-10-076-622-534
; Sequence 534, Application US/10076622
; Publication No. US20030023036A1
; GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
US-10-076-622-587
Sequence 587, Application US/10076622
; Publication No. US20030023036A1
; GENERAL INFORMATION:
                                              APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Fanger, Gary R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                   Vedvick, Thomas S.
McNeill, Patricia D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Houghton, Raymond L. APPLICANT: Sleath, Paul R. APPLICANT: Persing, David H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 57.9%;
Matches 11; Conservative
     No. US20020150581A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 57.9°
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
US-10-007-805-587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
CORGANISM: Homo sapiens
US-10-076-622-534
```

ð ద ઠે

ö

Gaps.

; 0

```
Sequence 8, Application US/10630926
Publication No. US20040194160A1
GENERAL INFORMATION:
APPLICANT: RICCARD, Carlo
TITLE OF INVENTION: DEATH PATHWAYS
                                                       ö
Query Match

34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred, No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 32.8%; Score 45; DB 16; Length 26; Best Local Similarity 42.9%; Pred. No. 46; Matches 9; Conservative 5; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNMER: US/10/630,926
FILING DATE: 31-Jul-2003
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 624 Ninth Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/403,861A
FILING DATE: 11-Feb-2000
APPLICATION NUMBER: PCT/EP98/02490
FILING DATE: 27-APR-1998
APPLICATION NUMBER: EP 97107033.9
FILING DATE: 28-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: RICCARDI=1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acids
TYPE: amino acid
TOPOLGGY: linear
SEQUENCE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-10-630-926-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Wanhington
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                   1 | ||-||| |: ||| |:
1 NCMLKKEIAMLKLEIATLK 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
                                                                                                   9 NAHLKQEIAALEQEIAALE 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                         US-10-630-926-8
                                                                                                                                                셤
```

Gaps

Search completed: April 27, 2005, 15:22:48 Job time : 90.5 secs

a ð

THIS PAGE LEAT BLANK